邢唷 > 

M H !"#$%&'()*+,-./0123456789:;<=>?@ABCDEFG IJKLN OPQRST

Root Entry  F鄇h N| 'SummaryInformation( DocumentSummaryInformation8 ObjectPool"!鄇h N| 鄇
h N| ! # & (- 01234 6 9
=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcde ghijklmnopqrstuvwxyz{|}~€ 鄥燆鵒h珣+'迟0 €  , 8 D P ₩hpx€ 2010t^Ux隭xvz ueQf[邁N€諎
 a   Normal.dot a 5@ 矷: @€, N| @ ┅5O  Microsoft Office Word 胀諟.摋+,D胀諟.摋+,|8 € (0 www.tomatoll.com  
 (₩€dlKSOProductBuildVer 2052-9.1.0.4047L {h FMicrosoft Equation 3.0 DS Equation Equation.3 9瞦 晗$pyJ鋧J詙J 丼丱  4 2 -燺
1234567890 F鄇h N| 鄇h N| _1234567891 F鄇h N| 鄇h N| _1234567892 F鄇h N| 鄇h N| _1234567893  F鄇h N| 鄇h N| _1234567894
F鄇h N| 鄇h N| Ole  PIC  LCompObj fObjInfo Equation Native  @Ole 
CompObj b FMicrosoft 公式 3.0 DS Equation Equation.3 9瞦 { T  .1  €@& ) &  MathTypep
Webdings{-2 !y 狛 ObjInfo OlePres000 |Equation Native  "DOle  $Symbol- 2 j & 
"Systems- 芍(絬卨 K`!餋fn-@錯玏c >絬卨 Equation Native  ;e韕蚐擽N歔/f陙裇蚐擽 & & & & & & & & & & & & & & & & & & & & & & & &  €{T{槝(qQ4槝 蟢槝6
R qQ24 R) 諎槝:y婳 1. (u RP[h廠愓l▼簨N20N2+剉3z歔'`孴義'`. 2. (W'YNSf[瀃寶衏瘇NaCl鰁 HQ(uBaCl2d柣SvQ-N剉EMBED Equation.3 菑鋘T峇(uNa2CO3d柣S菑iR剉Ba2+蔛Ca2+0Mg2+I{粂P[$Nek蚫\O{ Rek蹚L 0 g Tf[衏鶴
1u嶯BaSO4剉KSP = 1.1 (10-10 \嶯BaCO3剉KSP = 8.15 (10-9 @b錘(W燫eQBaCl2 ₩EMBED Equation.3塴續孾hQT N臺菑鋘1\颯魐燫eQNa2CO3 購7h颯€{S蚫\O \$N!k菑鋘Tv^:NN!k菑鋘 鵞dk `O gUO w誰0 梴槝

(qQ3槝 蟢槝12 R qQ36 R) 諎槝:y婳 1. 298K鰁 (WAg+/Ag5u乬-N燫eQ菑蠎I(緥緩0Rs^a場e[I(] = 0.10 mol dm-3 €鍿N*N5u乬:NCu2+/Cu [Cu2+] = 0.010 mol dm-3 皊 \$N5u乬膥b烻5u`l 橯鶴烻5u`l剉&{鱏05u`l蚐擽_0v^ 梴5u`l蚐擽剉s^a 8^pe0 EMBED Equation.3(Ag+/Ag) = 0.80 V EMBED Equation.3(Cu2+/Cu) = 0.34 V Ksp(AgI) = 1.0 (10-18 2. \菑蠎Zn(OH)2燫eQ1.0 dm3 KCN秐瞞-N s^a場e秐瞞剉pH = 10.50 [Zn(CN)4]2- 剉Sm /f0.080 mol dm-3 諎梴秐瞞-NZn2+ CN- 孴HCNSm錘蔛烻egKCNSm 0 (Ksp(Zn(OH)2) = 1.2 (10-17 K3z(Zn(CN)EMBED Equation.3) = 5.0 (1016 Ka(HCN) = 4.0 (10-10) d!. 耂€fN╟P S琋^ 'Yf[0NS-N^ 'Yf[0WS

琋^ 'Yf[鄀:gSf[Yex  貧I{Ye瞼鶴Hr>y 0鄀:gSf[0 N0 N孮 ,{踁Hr0  (*:<>@BDFH箸巯茂?sg[OC7CJ$OJQJo(aJ$5 CJ$OJQJo(aJ$5 CJ$OJQJo(aJ$5 CJ$OJQJo(aJ$5 CJ$OJQJo
(aJ$5 CJ$OJQJo(aJ$5 CJ$OJQJo(aJ$5 CJ$OJQJo(aJ$5 CJ$OJQJo(aJ$5 CJ$OJQJo(aJ$5 &CJ$OJQJo(aJ$5乵H sH nHtHCJ$OJQJo(aJ$5 CJ$OJQJo(aJ$5 CJ$OJQJo(aJ$5 CJ$OJQJo
(aJ$5 CJ$OJQJo(aJ$5 HJLNPRTVXZ₩`bpr 箸巯梅珶搰{ocWK?3CJ$OJQJo(aJ$5 CJ$OJQJo(aJ$5 CJ$OJQJo(aJ$5 CJ$OJQJo(aJ$5 CJ$OJQJo(aJ$5 CJ$OJQJo(aJ$5 CJ$OJQJo
(aJ$5 CJ$OJQJo(aJ$5 CJ$OJQJo(aJ$5 CJ$OJQJo(aJ$5 CJ$OJQJo(aJ$5 CJ$OJQJo(aJ$5 CJ$OJQJo(aJ$5 CJ$OJQJo(aJ$5 CJ$OJQJo(aJ$5 CJ$OJQJo(aJ$5 CJ$OJQJo
(aJ$5 " $ & (* , . 0 箫腌氵圩酉丝厂洀僿k_SGCJ$OJQJo(aJ$5 CJ$OJQJo(aJ$5 CJ$OJQJo(aJ$5 CJ$OJQJo(aJ$5 CJ$OJQJo(aJ$5 CJ$OJQJo(aJ$5 CJ$OJQJo
(aJ$5 CJ$OJQJo(aJ$5 CJ$OJQJo(aJ$5 CJ$OJQJo(aJ$5 CJ$OJQJo(aJ$5 CJo( CJo( CJo( CJo( CJo( CJo( CJo( CJo( CJo( CJo(CJ$OJQJo(aJ$5 0 2 4 6 8 F H h j l
箸巯梅朝媰{skc[SKC;CJOJQJo(CJOJQJo(CJOJQJo(CJOJQJo(CJOJQJo(CJOJQJo(CJOJQJo(CJOJQJo(CJOJQJo(CJOJQJo(CJ$OJQJo(aJ$5 CJ$OJQJo(aJ$5 CJ$OJQJo
(aJ$5 CJo( CJo(CJ$OJQJo(aJ$5 CJ$OJQJo(aJ$5 CJ$OJQJo(aJ$5 CJ$OJQJo(aJ$5 CJ$OJQJo(aJ$5 CJ$OJQJo(aJ$5 < > Z \ ~ € 黠腌氵圩酉饲糠В煕
棑噞ocWQK CJo(5 CJo(5 CJ$OJQJo(aJ$5 CJ$OJQJo(aJ$5 CJ$OJQJo(aJ$5 CJ$OJQJo(aJ$5 CJ$OJQJo(aJ$5 CJo( CJo( CJo( CJo( CJo( CJo( CJo(CJOJQJo(CJOJQJo(CJOJQJo
( CJo( CJo( CJo( CJo( CJo( CJo( CJo( CJo( CJo( CJo(CJOJQJo(CJOJQJo( 6 8 $ & 24FH€ 箫脲彷僦椅饶竞栋殧帄唫
~xtnhd₩CJOJQJo( CJo( CJo(5 CJo(5 CJo( CJo(5 CJo( CJo( CJo( CJo( CJo(5 CJo(5 CJo(5 CJo( CJo( CJo( CJo( CJo(5 CJo( CJo( CJo(5 CJo( CJo(5 CJo
( CJo(CJ CJo( CJo( CJo( CJo(5 CJo( CJo( CJo( CJo( CJo(# "$ lnp|~ 黹阚紫饲两沟鲍洍搹墔亇ysokgc]
Y CJo( CJo(5 CJo( CJo( CJo( CJo( CJo(5 CJo( CJo( CJo( CJo( CJo(5 CJo( CJo( CJo( CJo( CJo(5 CJo(5 CJo(5 CJo( CJo( CJo( CJo( CJo(5 CJo( CJo
(CJOJQJo( CJo(CJOJQJo( CJo(H* CJo( CJo(H*CJOJQJo( CJo(" lnp|~ JLNZ₩ "$JLN`bd 箜殄彷籽饲每坏杯━煕棑弸噧{uqmiea CJo
( CJo( CJo( CJo( CJo( CJo(5 CJo( CJo( CJo( CJo( CJo( CJo( CJo( CJo( CJo( CJo(5 CJo( CJo( CJo( CJo( CJo(5 CJo( CJo( CJo( CJo( CJo(5 CJo(5 CJo
(5 CJo( CJo( CJo( CJo( CJo(5 CJo( CJo( CJo($  02>@Bprt€ $&dfhvx 黹遽葙酉饲媒沟碑洍憤噧yuokga] CJo( CJo
(5 CJo( CJo( CJo(5 CJo( CJo(5 CJo( CJo( CJo(5 CJo( CJo(5 CJo( CJo( CJH* CJo(CJ CJo(CJ CJo( CJo( CJo( CJo(5 CJo( CJo( CJo( CJo( CJo(5 CJo
( CJo( CJo( CJo( CJo( CJo(5 CJo(5 CJo(5 $.02468:<>@BDFHJLN耥嵴山饱檷乽i]QE9CJ$OJQJo(aJ$5 CJ$OJQJo(aJ$5 CJ$OJQJo(aJ$5 CJ$OJQJo(aJ$5 CJ$OJQJo
(aJ$5 CJ$OJQJo(aJ$5 CJ$OJQJo(aJ$5 CJ$OJQJo(aJ$5 CJ$OJQJo(aJ$5 CJ$OJQJo(aJ$5 CJ$OJQJo(aJ$5 CJ$OJQJo(aJ$5 CJ$OJQJo(aJ$5 CJ$OJQJo(aJ$5 CJ$OJQJo(aJ$5 CJo
( CJo( CJo( CJo(5 NPRTbdjl 箸巯霉懂煑弻 噮 }zwlifdao(o(H*H*CJOJQJ j答o(o(o(H*H*o
(H*o(CJCJOJQJo(CJOJQJo(CJOJQJo( CJo(CJCJOJQJo(CJCJOJQJo(5 CJ$OJQJo(aJ$5 CJ$OJQJo(aJ$5 CJ$OJQJo(aJ$5 CJ$OJQJo(aJ$5 CJ$OJQJo(aJ$5 % "
(,04x~€ $(8:JLRTZ₩bfhjrvx|~€ 礻 潧櫁 o(o(o(o(o(o(H*o( H*o(CJOJQJ j答
H*o(H*CJOJQJ j答H*o(H*CJOJQJ j答H*o(o(o(H*H*CJOJQJ j答o
(6 >@`b€ 0@F₩^t  庳胀事谰己   殬 拹崑o(H*o(H*o(o
(H*o(o(H*o(o(o(o(o(o(o(o(o(o(o(o(CJOJQJo(CJCJOJQJo(CJCJOJQJo(5 CJOJQJo(5 o(o(o(o(6
*.08R`bdjl @ F H J h  耧遨匦蜕桥昧降灇拫儃qge[CJOJQJo(5 o(CJOJQJo(5 OJQJo(aJ5 OJQJo(aJOJQJo(aJ OJQJaJOJQJo
(aJ o(aJOJQJo(aJOJQJo(aJ OJQJaJOJQJo(aJ o(aJo(o(o(o( CJ5 CJCJOJQJo(CJCJOJQJo(5 CJOJQJo(5 o(o(o(6 o(o(6!
  & . 6 > @ J L l n 鲰溘宜禄博搳儂sjaXQB j 朓 VUB*`Jph B*`JphB*`JphUB*`Jpho(B*`JphH* B*`JphB*`Jpho( B*`JphB*`Jpho( o(mHsHB* `J ph 3fo( B*`JphB*`JphH*B*`JphH*
B*`JphB*`JphH* B*`JphB* `J ph 3fo(B* `J ph 3fo(B*`Jpho(B*`Jpho(B* `J ph 3fo(n p r ~ 痃拮吻镜湑寖|sjcZQH?
B*`JphH*B*`Jph6 B*`Jpho(B*`JphH* B*`JphB*`Jpho(B*`JphH* B*`JphB*`Jpho(B*`JphH* B*`JphB*`Jpho(B*`JphH* B*`JphB*`Jpho(B*`JphH* B*`JphB*`JphH*
B*`JphB*`Jpho(B*`JphU jUB*`Jpho(EH " 2 4 6 : > J R T V X x 哓掀慷洈坽tkb[RI@9 B*`JphB*`JphUB*`Jpho(B*`JphH* B*`JphB*`Jpho(B*`JphH*
B*`JphB*`JphCJOJQJB*`JphCJ j答 B*`JphB*`JphH*B*`Jph6 B*`Jpho(B*`JphH* B*`JphB*`Jpho(B*`JphH* B*`JphB*`JphCJOJQJB*`JphCJ j答
B*`Jphx z | ~ " $ * 2 8 < > D R T V d 疳叵瓤腐晪垁}sokgc_₩YVPNo( H* j- o(H*o( o(aJ o(aJ o(aJ o(aJ o(aJCJOJQJo(5 CJCJOJQJo
(CJCJOJQJo(5 CJOJQJo(5 B*`JphB*`Jpho(B*`JphH* B*`JphB*`JphH* B*`JphB*`Jpho(B*`JphU j+UB*`Jpho(EH j 朓
VUB*`Jph d h j * , 4 6 V X Z \ b d ~ € 篑 忄瘴堪 憘sjgdo(H*B*`JphU jQ UB*`Jpho(EH j 朓 VUB*`Jph
B*`JphB*`JphUo(H*B*`JphU jSUB*`Jpho(EH j 朓 VUB*`Jph B*`JphB*`JphUo(H*o(H*o(H*o(H*o( H* j- & !!! !(!*!2!F!Z!\!j!l!n!r!t!|!!!!!!
!!!!!!!!!!!!!!!! " """" " " "."0"P"R" 铎殓 贤嗜琶 狗 ァ j 朓 VUU H*o(6 o(H* CJ j答H*H*6 o(o(o(H*o(H*o(H*o(o(H*H*o
(o(H*o(H*o(o(H* CJ j答H*6 9R"T"V"f"h"n"r"t"v"x" " " " " " " " " " " # #"#鲷 觇驿 温丢 CJ$OJQJaJ$5 CJOJQJo(CJOJQJo(CJ$OJQJo(aJ$5 CJ$OJQJo(aJ$5 CJ$OJQJo
(aJ$5 CJOJQJo(5 H* CJ j答H*6 o(H* CJ j答UjOUEH o(
*<>@BDFHJLNPRT a$$a$$a$$a$$a$$a$$a$$a$$a$$a$$a$$a$$a$$a$$a$$a$$a$$a$$TVXZ₩br

" $ & d d dh劋`劋dh劋`劋dh劋`劋dh劋`劋dh劋`劋d d d a$$a$$a$$a$$a$$& ( * , . 0 2 4 6 8 H j l dh劋`劋 & Fdhdhdh劋`劋 & Fdh dha$$dhdh劋`劋 dha$$ > \ € dhdhdh劋`劋dh劋`劋dh劋`劋dh劋`劋 & Fdhdhdh劋`劋dh劋`劋dh劋`劋dh劋`劋dh劋`劋 & Fdhdh 8 & dhdh劋`劋dhdhdh劋`劋dhdhdh劋`劋dhdhdh劋`劋

dhdh dha$$ dha$$ dha$$4H $ n dh劋`劋dhdhdh劋`劋dh dha$$dhdh劋`劋
dhdhdh劋`劋dhdhdh劋`劋dh dha$$np~ np~ LN₩ dhdh劋`劋dhdhdh劋`劋
dh dha$$dhdh劋`劋dhdhdh劋`劋dhdhdh劋`劋dhdh $LNb  2@rt dhdhdh劋`劋
dhdhdhdh dha$$dhdhdhdhdh劋`劋dhdh劋`劋dh劋`劋
dh &fhx 02468:<> dhdhdhdhdhdhdhdhdhdhdh劋`劋dhdhdh劋`劋dhdhdh劋`劋

>@BDFHJLNPRTd dh +dhdhdhdh & Fdh dha$$dhdhdhdhdhdhdhdhdhdh hj bd J dhdhdhdh & Fdhdhdhdhdhdhdh & Fdhdh dhG$ j + dhG$ dhG$dh +J " $, ! dhG$dh dhG$ dhG$

dhG$ dhG$ dhG$ & Fdhdhdhdhdhdhdh & Fdhdhdh! " " " " #"# dha$$dh dha$$ dha$$dh dhG$ 1 皞. 捌A! #悹" $悹% 癝
班2P1 8 @@ 榽湇怬J肞瓶櫒5i罰姭嗦匬砚r `z c)Hp痆徯晽袇郃芄v) >g =+鐱 3骵媲7!腀 € 岴y1k禒*)奈9S定g S榥笞^噑危甌K+X冇%ひ?Hu玗<薭;蘴 7殲 汭 殐7瀩 軔%F:<: //玻q5:I濘鍆"y愄hj 8x膡

燿 /J7P闰嬏臚{籱摖pP ⅳ块ⅸ幥g;驦 畭星舟?逓ЕhYw₩髗言硬Bidsw 恶 9 摭'W錍 (Dd h 餳 s *€ A 0 3" €€ €2 餷鳕鋋f醥R;T X绿 H`!餈鳕鋋f 醥R;T X绿 @@ 榽湑怉J腜 :谖€埆饴0 寠 F((X;)顄 f %t!xw甝 ⑾$}帬 1餒7SBOX 睼 橞鞙3e浿L賓蛴]腭悋A"說g雙簞X ﹏ €gY禚 F汩I轑嘈 捡烀屶,1恻,阾扛H彧r|.:樗鱄氀訢v饒
wOI輄斈S闰嬏匜{籱W ⒛块)彨3虧礚 畭星舟#? c珊{=鎶 7拨 %隉N浕脀爨 押 LeCi Ddi 餳 s *€ A 0 3" €€ €2 養~帒 疛6h`崻蕋$鞃 `!
 ~帒 疛6h`崻蕋$鞃q@€_糕 渦P; Q 溎 *竄墠烞癙 x+k排m+k廯,<捊 3y籯鐑恉萀&彁w 2籁$r琔RQ" c,谣奅zL裻瀋^佅<`読(O╊谏l[" 0 椼噜 }s軽#戈N2軌7洴v 'u <+癸05H 汇头O $=H槪`;踥
耓:俲~7狝鵮8 莦& j喝仡^埞9 穮 { 5 鼂騏z黄芏68 Ddi 餳 s *€ A 0 3" €€ €2 養~帒 疛6h`崻蕋$鞃 `! ~帒 疛6h`崻蕋$鞃q@€_糕 渦P; Q

溎 *竄墠烞癙 x+k排m+k廯,<捊 3y籯鐑恉萀&彁w 2籁$r琔RQ" c,谣奅zL裻瀋^佅<`読( O╊谏l[" 0 椼噜 }s軽#戈N2軌7洴v 'u <+癸05H 汇头O $=H槪`;踥耓:俲~7狝鵮8 莦& j喝仡^埞9 穮 { 5 鼂騏z黄芏68 Dd h 餳 s *€ A 0 3" €€ €2餔葅XNgJ] 頽TT潸 &`! 葅XNgJ] 頽TT潸u€@蟃榽 渃d郿``奘览滥 珸躺b眬D "孡 嬭1J€E —箼
` 鷛 厐,56~) M @ k%5 bn 吣拰愂俆 笆週 a樌v傽penR~腅篅Q m呐母 靣4} ,@}!櫣┡ ~╁ A墆 狿留 $搇 &A?爘 .;估~ u;樂 潲6F&&ム殊捲\哹 +!v0203@(4@ 0:#
勑^勑 0齚 0 o(0

凥^凥刓刓 H )勳^勳刓刓 .剱 ^剱 刓刓 . 4^ 4刓刓 4 )勜 ^勜 刓刓 .剕 ^剕
刓刓 |  . ^ 刓刓 )勀^勀刓刓 . 勑^勑 0齚 0 o(0凥^凥刓刓 H )勳^勳刓刓 .剱 ^剱 刓刓
. 4^ 4刓刓 4 )勜 ^勜 刓刓 .剕 ^剕 刓刓 |  . ^ 刓刓 )勀^勀刓刓 . J` Jck噀 a$$1$
CJaJKHmH sH nHtH_H$A` $ 貫祂=刉[SOH 0 N  n x d R""# !"#$%&T& n > J !"#'()*+,-./0123 G 噝 € Times New Roman-

 媅SO1 €R<* 甠o徟栄 5 噝a€ (Tahoma5  €Symbol3$ 噝€ @ Arial- 褳SO?4 噝€ @ Courier New; €Wingdings Normal.dot2010t^Ux隭xvz ueQf[邁N€諎aa  萉h",鱂獼G  !Z&!),.:;?]} & 6"0000 0 0 00000 = @ \] ^
([{ 0 0 00000 ; [€) ?       '*2€ h 瘙 O鸢2 $fn-@錯玏c >絬卨 2 $鳕鋋f醥R;T X绿

2 $~帒 疛6h`崻蕋$鞃 2 $葅XNgJ] 頽TT潸 S € 溇 徽 s溍 >饐 0 ( 6 S   ? + < >  + - @ Q S  (* : 晙: 晥: 晥: 晥: 晥@