

Analyzers 3.0.9 and ESP 8.1.9

What is new?

August 27, 2009

Mixed-solvent electrolyte databank

Amine – water and selected amine – hydrocarbon systems for:

N-methylmorpholine
Dimethylisopropanolamine (DMIPA)
Propylamine
sec-Butylamine
Hydroxylamine – H₂SO₄

Hydrometallurgy-related systems:

Ca – H – Cl – SO₄ systems

CaCl₂ - HCl

CaSO₄ - H₂SO₄

CaSO₄ - CaCl₂

CaSO₄ – HCl

Na – Ca – H – Cl – SO₄ systems:

CaSO₄ – Na₂SO₄

CaSO₄ – HCl – NaCl

Mg – H – SO₄ – Cl systems

MgSO₄ – H₂SO₄

MgCl₂ – HCl

MgSO₄ – MgCl₂

Mg – Ca – H – Cl – SO₄ systems

CaSO₄ – MgSO₄

CaSO₄ – MgCl₂

Mn – Ca – H – SO₄ systems

MnSO₄

MnSO₄ – H₂SO₄

CaSO₄ – MnSO₄

Co – H – SO₄ systems

CoSO₄

CoSO₄ – H₂SO₄

CaSO₄ – (NH₄)₂SO₄

CaSO₄ – FeCl₃ – HCl

CaSO₄ – ZnSO₄ – H₂SO₄

CaSO₄ – ZnSO₄ – MgSO₄ – MnSO₄ – Na₂SO₄ – (NH₄)₂SO₄ – H₂SO₄

CaSO₄ – ZnSO₄ – Fe₂(SO₄)₃ – ZnSO₄ – H₂SO₄

CaSO₄ – NiSO₄

CaSO₄ – NiSO₄ – Fe₂(SO₄)₃ – LiCl – H₂SO₄

Revision of parameters for calculations up to 350 °C
SiO₂ (including amorphous SiO₂ and quartz) – H₂O
LiOH – H₂O
H₃BO₃ – H₂O
Lithium borates – H₂O
H₂ – H₂O

Other electrolyte – water systems
NH₄NO₃ – H₂O – revision
MoO₂ – moved to the CRMSE databank
WO₂ – moved to the CRMSE databank
Amorphous FeS – revision of volume

Electrolyte - organic systems
HBr – CH₄ - estimation

Nonelectrolyte systems
O₂ – H₂O – revision of gas-phase interactions
N₂ – H₂O – revision of gas-phase interactions

Aqueous databank

Electrolyte – water systems
MoO₂ – moved to the CRMSE databank
WO₂ – moved to the CRMSE databank
Amorphous FeS – revision of volume

Nonelectrolyte systems
O₂ – H₂O – revision of gas-phase interactions
N₂ – H₂O – revision of gas-phase interactions
sec-butyl alcohol – revision of parameters

Ion exchange
Revision of ion exchange reactions

Corrosion kinetics

No change