

Zinc(II) n-octadecanoate

Other names:	Zinc(II) n-octadecanoate
Inchi:	InChI=1S/2C18H36O2.Zn/c2*1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18(19)20;/h2*2
InchiKey:	XOOUIPVCVHRTMJ-UHFFFAOYSA-L
Formula:	C36H70O4Zn
SMILES:	CCCCCCCCCCCCCCCCCCCC(=O)[O-].CCCCCCCCCCCCCCCCCCCC(=O)[O-].[Zn+2]
Mol. weight [g/mol]:	632.34

Physical Properties

Property code	Value	Unit	Source
af	1.4625		Cheméo Relay (1.0)
gf	-35.27	kJ/mol	Cheméo Relay (1.0, beta)
hf	-1711.78	kJ/mol	Cheméo Relay (1.0)
hvap	176.98	kJ/mol	Cheméo Relay (1.0)
ie	9.73	eV	Cheméo Relay (1.0)
log10ws	-11.18		Cheméo Relay (1.0)
tb	853.26	K	Cheméo Relay (1.0)
tc	1073.39	K	Cheméo Relay (1.0)
tf	398.75	K	Cheméo Relay (1.0)
vc	1.961	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hfust	103.00	kJ/mol	403.00	NIST Webbook
sfust	256.00	J/mol×K	403.00	NIST Webbook

Sources

- NIST Webbook:
<http://webbook.nist.gov/cgi/cbook.cgi?ID=C557051&Units=SI>
- Cheméo Relay (1.0):
- Cheméo Relay (1.0, beta):

Legend

af:	Acentric Factor
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfust:	Enthalpy of fusion at a given temperature
hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
sfust:	Entropy of fusion at a given temperature
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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