

15,16-Dihydroxy triacontane

Inchi:	InChI=1S/C30H62O2/c1-3-5-7-9-11-13-15-17-19-21-23-25-27-30(32)28-29(31)26-24-22-
InchiKey:	VLGNRGXIMJJYBW-UHFFFAOYSA-N
Formula:	C30H62O2
SMILES:	CCCCCCCCCCCCCCCC(O)CC(O)CCCCCCCCCCCCC
Mol. weight [g/mol]:	454.81

Physical Properties

Property code	Value	Unit	Source
gf	-76.80	kJ/mol	Joback Method
hf	-977.55	kJ/mol	Joback Method
hfus	74.59	kJ/mol	Joback Method
hvap	114.96	kJ/mol	Joback Method
log10ws	-11.13		Crippen Method
logp	9.891		Crippen Method
mcvol	445.300	ml/mol	McGowan Method
pc	658.14	kPa	Joback Method
tb	1069.28	K	Joback Method
tc	1390.05	K	Joback Method
tf	519.50	K	Joback Method
vc	1.742	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1649.64	J/molxK	1069.28	Joback Method
cpg	1680.36	J/molxK	1122.74	Joback Method
cpg	1708.51	J/molxK	1176.20	Joback Method
cpg	1734.44	J/molxK	1229.66	Joback Method
cpg	1758.48	J/molxK	1283.13	Joback Method
cpg	1780.96	J/molxK	1336.59	Joback Method
cpg	1802.21	J/molxK	1390.05	Joback Method
dvisc	0.0001781	Paxs	519.50	Joback Method
dvisc	0.0000261	Paxs	611.13	Joback Method
dvisc	0.0000063	Paxs	702.76	Joback Method

dvisc	0.0000021	Paxs	794.39	Joback Method
dvisc	0.0000009	Paxs	886.02	Joback Method
dvisc	0.0000004	Paxs	977.65	Joback Method
dvisc	0.0000002	Paxs	1069.28	Joback Method

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=B6002026&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvac:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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