

1-Octadecanol, 2-tetradecyl-

Other names:	2-tetradecyloctadecan-1-ol
Inchi:	InChI=1S/C32H66O/c1-3-5-7-9-11-13-15-17-18-20-22-24-26-28-30-32(31-33)29-27-25-2
InchiKey:	RTXVDAJGIYOHFY-UHFFFAOYSA-N
Formula:	C32H66O
SMILES:	CCCCCCCCCCCCCCCC(CO)CCCCCCCCCCCC
Mol. weight [g/mol]:	466.87
CAS:	32582-32-4

Physical Properties

Property code	Value	Unit	Source
gf	79.30	kJ/mol	Joback Method
hf	-861.32	kJ/mol	Joback Method
hfus	79.20	kJ/mol	Joback Method
hvap	103.12	kJ/mol	Joback Method
log10ws	-12.24		Crippen Method
logp	11.558		Crippen Method
mcvol	467.610	ml/mol	McGowan Method
pc	569.60	kPa	Joback Method
tb	1023.30	K	Joback Method
tc	1307.16	K	Joback Method
tf	496.22	K	Joback Method
vc	1.841	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1705.88	J/mol×K	1023.30	Joback Method
cpg	1737.31	J/mol×K	1070.61	Joback Method
cpg	1766.35	J/mol×K	1117.92	Joback Method
cpg	1793.24	J/mol×K	1165.23	Joback Method
cpg	1818.22	J/mol×K	1212.54	Joback Method
cpg	1841.54	J/mol×K	1259.85	Joback Method
cpg	1863.43	J/mol×K	1307.16	Joback Method
dvisc	0.0003724	Pa×s	496.22	Joback Method

dvisc	0.0000798	Pa×s	584.07	Joback Method
dvisc	0.0000256	Pa×s	671.91	Joback Method
dvisc	0.0000107	Pa×s	759.76	Joback Method
dvisc	0.0000053	Pa×s	847.61	Joback Method
dvisc	0.0000030	Pa×s	935.45	Joback Method
dvisc	0.0000019	Pa×s	1023.30	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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=C32582324&Units=SI

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
hvap:	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

Latest version available from:

<https://www.chemeo.com/cid/77-219-4/1-Octadecanol-2-tetradecyl.pdf>

Generated by Cheméo on 2025-12-23 06:42:50.473165871 +0000 UTC m=+6220368.003206525.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.