

Tetratriacontane, 1-bromo-

Inchi:	InChI=1S/C34H69Br/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24
InchiKey:	HKGKJRYEHXQREC-UHFFFAOYSA-N
Formula:	C34H69Br
SMILES:	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCBr
Mol. weight [g/mol]:	557.82
CAS:	62108-50-3

Physical Properties

Property code	Value	Unit	Source
gf	249.72	kJ/mol	Joback Method
hf	-718.76	kJ/mol	Joback Method
hfus	89.10	kJ/mol	Joback Method
hvap	97.71	kJ/mol	Joback Method
log10ws	-14.49		Crippen Method
logp	13.884		Crippen Method
mcvol	507.420	ml/mol	McGowan Method
pc	513.49	kPa	Joback Method
tb	1043.48	K	Joback Method
tc	1323.57	K	Joback Method
tf	532.74	K	Joback Method
vc	2.002	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1814.42	J/mol×K	1043.48	Joback Method
cpg	1846.34	J/mol×K	1090.16	Joback Method
cpg	1876.10	J/mol×K	1136.84	Joback Method
cpg	1903.93	J/mol×K	1183.53	Joback Method
cpg	1930.12	J/mol×K	1230.21	Joback Method
cpg	1954.91	J/mol×K	1276.89	Joback Method
cpg	1978.57	J/mol×K	1323.57	Joback Method
dvisc	0.0003111	Pa×s	532.74	Joback Method
dvisc	0.0001166	Pa×s	617.86	Joback Method

dvisc	0.0000554	Pa×s	702.99	Joback Method
dvisc	0.0000309	Pa×s	788.11	Joback Method
dvisc	0.0000193	Pa×s	873.23	Joback Method
dvisc	0.0000131	Pa×s	958.36	Joback Method
dvisc	0.0000095	Pa×s	1043.48	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=C62108503&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

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