

Sebacic acid, heptadecyl neopentyl ester

Inchi:

InchiKey:

Formula:

SMILES:

Mol. weight [g/mol]:

InChI=1S/C32H62O4/c1-5-6-7-8-9-10-11-12-13-14-15-16-19-22-25-28-35-30(33)26-23-2

VSXMPUGACCODFW-UHFFFAOYSA-N

C32H62O4

CCCCCCCCCCCCCCCCCOC(=O)CCCCCCCCC(=O)OCC(C)(C)C

510.83

Physical Properties

Property code	Value	Unit	Source
gf	-246.44	kJ/mol	Joback Method
hf	-1202.16	kJ/mol	Joback Method
hfus	76.80	kJ/mol	Joback Method
hvap	103.84	kJ/mol	Joback Method
log10ws	-10.70		Crippen Method
logp	10.111		Crippen Method
mcvol	476.620	ml/mol	McGowan Method
pc	572.61	kPa	Joback Method
rinpol	3556.00		NIST Webbook
rinpol	3556.00		NIST Webbook
tb	1080.91	K	Joback Method
tc	1367.66	K	Joback Method
tf	597.14	K	Joback Method
vc	1.865	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1736.61	J/mol×K	1080.91	Joback Method
cpg	1762.24	J/mol×K	1128.70	Joback Method
cpg	1785.28	J/mol×K	1176.49	Joback Method
cpg	1805.94	J/mol×K	1224.29	Joback Method
cpg	1824.42	J/mol×K	1272.08	Joback Method
cpg	1840.92	J/mol×K	1319.87	Joback Method
cpg	1855.66	J/mol×K	1367.66	Joback Method
dvisc	0.0001538	Pa×s	597.14	Joback Method

dvisc	0.0000653	Pa×s	677.77	Joback Method
dvisc	0.0000333	Pa×s	758.40	Joback Method
dvisc	0.0000193	Pa×s	839.02	Joback Method
dvisc	0.0000123	Pa×s	919.65	Joback Method
dvisc	0.0000084	Pa×s	1000.28	Joback Method
dvisc	0.0000061	Pa×s	1080.91	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U354478&Units=SI
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

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
mccvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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