

Sebacic acid, di(2-(2-methoxyethyl)heptyl) ester

Inchi:	InChI=1S/C30H58O6/c1-5-7-13-17-27(21-23-33-3)25-35-29(31)19-15-11-9-10-12-16-20-
InchiKey:	LCVJSTOXOYCXBW-UHFFFAOYSA-N
Formula:	C30H58O6
SMILES:	CCCCC(CCOC)COC(=O)CCCCCCCCC(=O)OCC(CCCCC)CCOC
Mol. weight [g/mol]:	514.78

Physical Properties

Property code	Value	Unit	Source
gf	-481.00	kJ/mol	Joback Method
hf	-1427.13	kJ/mol	Joback Method
hfus	74.36	kJ/mol	Joback Method
hvap	104.73	kJ/mol	Joback Method
log10ws	-7.80		Crippen Method
logp	7.660		Crippen Method
mcvol	460.180	ml/mol	McGowan Method
pc	617.57	kPa	Joback Method
rinpol	3422.00		NIST Webbook
rinpol	3422.00		NIST Webbook
tb	1082.34	K	Joback Method
tc	1371.18	K	Joback Method
tf	586.64	K	Joback Method
vc	1.788	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1665.21	J/molxK	1082.34	Joback Method
cpg	1686.60	J/molxK	1130.48	Joback Method
cpg	1704.42	J/molxK	1178.62	Joback Method
cpg	1718.76	J/molxK	1226.76	Joback Method
cpg	1729.67	J/molxK	1274.90	Joback Method
cpg	1737.24	J/molxK	1323.04	Joback Method
cpg	1741.53	J/molxK	1371.18	Joback Method
dvisc	0.0001314	Paxs	586.64	Joback Method

dvisc	0.0000544	Paxs	669.26	Joback Method
dvisc	0.0000273	Paxs	751.87	Joback Method
dvisc	0.0000157	Paxs	834.49	Joback Method
dvisc	0.0000100	Paxs	917.11	Joback Method
dvisc	0.0000069	Paxs	999.72	Joback Method
dvisc	0.0000050	Paxs	1082.34	Joback Method

Sources

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=U354359&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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
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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