

Sebacic acid, 2-methoxyethyl propyl ester

Inchi:	InChI=1S/C16H30O5/c1-3-12-20-15(17)10-8-6-4-5-7-9-11-16(18)21-14-13-19-2/h3-14H2
InchiKey:	UCDIBHUTTXAVRT-UHFFFAOYSA-N
Formula:	C16H30O5
SMILES:	CCCOC(=O)CCCCCCCCC(=O)OCCOC
Mol. weight [g/mol]:	302.41

Physical Properties

Property code	Value	Unit	Source
gf	-489.00	kJ/mol	Joback Method
hf	-995.39	kJ/mol	Joback Method
hfus	43.96	kJ/mol	Joback Method
hvap	71.93	kJ/mol	Joback Method
log10ws	-3.33		Crippen Method
logp	3.250		Crippen Method
mcvol	257.050	ml/mol	McGowan Method
pc	1393.33	kPa	Joback Method
rinpola	2116.00		NIST Webbook
tb	740.48	K	Joback Method
tc	918.04	K	Joback Method
tf	436.63	K	Joback Method
vc	0.998	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	763.64	J/molxK	740.48	Joback Method
cpg	837.03	J/molxK	888.45	Joback Method
cpg	824.05	J/molxK	858.86	Joback Method
cpg	810.22	J/molxK	829.26	Joback Method
cpg	795.54	J/molxK	799.67	Joback Method
cpg	780.01	J/molxK	770.07	Joback Method
cpg	849.16	J/molxK	918.04	Joback Method
dvisc	0.0000704	Paxs	740.48	Joback Method
dvisc	0.0000918	Paxs	689.84	Joback Method

dvisc	0.0001249	Paxs	639.20	Joback Method
dvisc	0.0001790	Paxs	588.56	Joback Method
dvisc	0.0002746	Paxs	537.91	Joback Method
dvisc	0.0004605	Paxs	487.27	Joback Method
dvisc	0.0008707	Paxs	436.63	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=U355753&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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