

Diethylmalonic acid, di(tetrahydrofurfuryl) ester

Inchi:	InChI=1S/C17H28O6/c1-3-17(4-2,15(18)22-11-13-7-5-9-20-13)16(19)23-12-14-8-6-10-21
InchiKey:	OCPSTBMCYRAGTA-UHFFFAOYSA-N
Formula:	C17H28O6
SMILES:	CCC(CC)(C(=O)OCC1CCCO1)C(=O)OCC1CCCO1
Mol. weight [g/mol]:	328.40

Physical Properties

Property code	Value	Unit	Source
gf	-471.88	kJ/mol	Joback Method
hf	-1035.60	kJ/mol	Joback Method
hfus	41.77	kJ/mol	Joback Method
hvap	79.99	kJ/mol	Joback Method
log10ws	-2.61		Crippen Method
logp	2.237		Crippen Method
mvol	255.290	ml/mol	McGowan Method
pc	1740.46	kPa	Joback Method
rinpol	2167.00		NIST Webbook
rinpol	2167.00		NIST Webbook
tb	822.17	K	Joback Method
tc	1038.47	K	Joback Method
tf	503.03	K	Joback Method
vc	0.949	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	844.57	J/molxK	822.17	Joback Method
cpg	919.31	J/molxK	1002.42	Joback Method
cpg	906.91	J/molxK	966.37	Joback Method
cpg	893.30	J/molxK	930.32	Joback Method
cpg	878.41	J/molxK	894.27	Joback Method
cpg	862.18	J/molxK	858.22	Joback Method
cpg	930.54	J/molxK	1038.47	Joback Method
dvisc	0.0001062	Paxs	822.17	Joback Method

dvisc	0.0001385	Paxs	768.98	Joback Method
dvisc	0.0001881	Paxs	715.79	Joback Method
dvisc	0.0002682	Paxs	662.60	Joback Method
dvisc	0.0004068	Paxs	609.41	Joback Method
dvisc	0.0006683	Paxs	556.22	Joback Method
dvisc	0.0012196	Paxs	503.03	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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=U370649&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
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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