

Glutaric acid, 2-methoxyethyl propyl ester

Inchi:	InChI=1S/C11H20O5/c1-3-7-15-10(12)5-4-6-11(13)16-9-8-14-2/h3-9H2,1-2H3
InchiKey:	HKVFOLXLXHMHEB-UHFFFAOYSA-N
Formula:	C11H20O5
SMILES:	CCCOC(=O)CCCC(=O)OCCOC
Mol. weight [g/mol]:	232.27

Physical Properties

Property code	Value	Unit	Source
gf	-531.10	kJ/mol	Joback Method
hf	-892.19	kJ/mol	Joback Method
hfus	31.01	kJ/mol	Joback Method
hvap	60.80	kJ/mol	Joback Method
log10ws	-1.24		Crippen Method
logp	1.299		Crippen Method
mcvol	186.600	ml/mol	McGowan Method
pc	2068.00	kPa	Joback Method
rinpol	1617.00		NIST Webbook
tb	626.08	K	Joback Method
tc	804.16	K	Joback Method
tf	380.28	K	Joback Method
vc	0.718	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	491.55	J/molxK	626.08	Joback Method
cpg	505.33	J/molxK	655.76	Joback Method
cpg	518.52	J/molxK	685.44	Joback Method
cpg	531.13	J/molxK	715.12	Joback Method
cpg	543.15	J/molxK	744.80	Joback Method
cpg	554.55	J/molxK	774.48	Joback Method
cpg	565.34	J/molxK	804.16	Joback Method
dvisc	0.0013004	Paxs	380.28	Joback Method
dvisc	0.0007399	Paxs	421.25	Joback Method

dvisc	0.0004653	Paxs	462.21	Joback Method
dvisc	0.0003155	Paxs	503.18	Joback Method
dvisc	0.0002269	Paxs	544.15	Joback Method
dvisc	0.0001708	Paxs	585.11	Joback Method
dvisc	0.0001335	Paxs	626.08	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=U360099&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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