

Glutaric acid, 2-ethoxyethyl ethyl ester

Inchi:	InChI=1S/C11H20O5/c1-3-14-8-9-16-11(13)7-5-6-10(12)15-4-2/h3-9H2,1-2H3
InchiKey:	RGPSXPZPGSYFEK-UHFFFAOYSA-N
Formula:	C11H20O5
SMILES:	CCOCCOC(=O)CCCC(=O)OCC
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	1583.00		NIST Webbook
rinpol	1583.00		NIST Webbook
tb	626.08	K	Joback Method
tc	804.16	K	Joback Method
tf	380.28	K	Joback Method
vc	0.718	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	491.55	J/mol×K	626.08	Joback Method
cpg	505.33	J/mol×K	655.76	Joback Method
cpg	518.52	J/mol×K	685.44	Joback Method
cpg	531.13	J/mol×K	715.12	Joback Method
cpg	543.15	J/mol×K	744.80	Joback Method
cpg	554.55	J/mol×K	774.48	Joback Method
cpg	565.34	J/mol×K	804.16	Joback Method
dvisc	0.0013004	Pa×s	380.28	Joback Method

dvisc	0.0007399	Pa×s	421.25	Joback Method
dvisc	0.0004653	Pa×s	462.21	Joback Method
dvisc	0.0003155	Pa×s	503.18	Joback Method
dvisc	0.0002269	Pa×s	544.15	Joback Method
dvisc	0.0001708	Pa×s	585.11	Joback Method
dvisc	0.0001335	Pa×s	626.08	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U359616&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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