

Glutaric acid, monochloride, 2-methoxyethyl ester

Inchi:	InChI=1S/C8H13ClO4/c1-12-5-6-13-8(11)4-2-3-7(9)10/h2-6H2,1H3
InchiKey:	HPPLHOKUVXUYSV-UHFFFAOYSA-N
Formula:	C8H13ClO4
SMILES:	COCCOC(=O)CCCC(=O)Cl
Mol. weight [g/mol]:	208.64

Physical Properties

Property code	Value	Unit	Source
gf	-463.29	kJ/mol	Joback Method
hf	-713.79	kJ/mol	Joback Method
hfus	26.25	kJ/mol	Joback Method
hvap	56.10	kJ/mol	Joback Method
log10ws	-1.05		Crippen Method
logp	1.112		Crippen Method
mvol	150.700	ml/mol	McGowan Method
pc	2681.86	kPa	Joback Method
rinpol	1449.00		NIST Webbook
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tb	572.45	K	Joback Method
tc	760.84	K	Joback Method
tf	354.16	K	Joback Method
vc	0.581	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	347.95	J/molxK	572.45	Joback Method
cpg	358.92	J/molxK	603.85	Joback Method
cpg	369.43	J/molxK	635.25	Joback Method
cpg	379.47	J/molxK	666.65	Joback Method
cpg	389.03	J/molxK	698.04	Joback Method
cpg	398.11	J/molxK	729.44	Joback Method
cpg	406.69	J/molxK	760.84	Joback Method
dvisc	0.0018466	Paxs	354.16	Joback Method

dvisc	0.0010994	Paxs	390.54	Joback Method
dvisc	0.0007150	Paxs	426.92	Joback Method
dvisc	0.0004975	Paxs	463.31	Joback Method
dvisc	0.0003650	Paxs	499.69	Joback Method
dvisc	0.0002792	Paxs	536.07	Joback Method
dvisc	0.0002210	Paxs	572.45	Joback Method

Sources

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=U360117&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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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