

Glutaric acid, di(2-methoxyethyl) ester

Inchi:	InChI=1S/C11H20O6/c1-14-6-8-16-10(12)4-3-5-11(13)17-9-7-15-2/h3-9H2,1-2H3
InchiKey:	WJASGJGCRFUEGM-UHFFFAOYSA-N
Formula:	C11H20O6
SMILES:	COCCOC(=O)CCCC(=O)OCCOC
Mol. weight [g/mol]:	248.27

Physical Properties

Property code	Value	Unit	Source
gf	-636.10	kJ/mol	Joback Method
hf	-1024.41	kJ/mol	Joback Method
hfus	32.20	kJ/mol	Joback Method
hvap	63.21	kJ/mol	Joback Method
log10ws	-0.33		Crippen Method
logp	0.536		Crippen Method
mcvol	192.470	ml/mol	McGowan Method
pc	2036.39	kPa	Joback Method
rinqol	1773.00		NIST Webbook
tb	648.50	K	Joback Method
tc	826.29	K	Joback Method
tf	402.51	K	Joback Method
vc	0.736	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	518.26	J/molxK	648.50	Joback Method
cpg	580.56	J/molxK	796.66	Joback Method
cpg	569.34	J/molxK	767.02	Joback Method
cpg	557.49	J/molxK	737.39	Joback Method
cpg	545.01	J/molxK	707.76	Joback Method
cpg	531.93	J/molxK	678.13	Joback Method
cpg	591.13	J/molxK	826.29	Joback Method
dvisc	0.0001037	Paxs	648.50	Joback Method
dvisc	0.0001321	Paxs	607.50	Joback Method

dvisc	0.0001743	Paxs	566.50	Joback Method
dvisc	0.0002401	Paxs	525.50	Joback Method
dvisc	0.0003492	Paxs	484.51	Joback Method
dvisc	0.0005444	Paxs	443.51	Joback Method
dvisc	0.0009290	Paxs	402.51	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U360116&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

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

Latest version available from:

<https://www.chemeo.com/cid/45-509-7/Glutaric-acid-di-2-methoxyethyl-ester.pdf>

Generated by Cheméo on 2024-04-24 20:45:06.633437372 +0000 UTC m=+16280755.554014686.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.