

Glutaric acid, 5-methoxy-3-methylpentyl propyl ester

Inchi:	InChI=1S/C15H28O5/c1-4-10-19-14(16)6-5-7-15(17)20-12-9-13(2)8-11-18-3/h13H,4-12H
InchiKey:	GWRVEXJAWQUOHL-UHFFFAOYSA-N
Formula:	C15H28O5
SMILES:	CCCOC(=O)CCCC(=O)OCCC(C)CCOC
Mol. weight [g/mol]:	288.38

Physical Properties

Property code	Value	Unit	Source
gf	-499.86	kJ/mol	Joback Method
hf	-980.03	kJ/mol	Joback Method
hfus	37.84	kJ/mol	Joback Method
hvap	69.32	kJ/mol	Joback Method
log10ws	-2.67		Crippen Method
logp	2.716		Crippen Method
mcvol	242.960	ml/mol	McGowan Method
pc	1508.15	kPa	Joback Method
rinpol	1981.00		NIST Webbook
rinpol	1981.00		NIST Webbook
tb	717.16	K	Joback Method
tc	895.78	K	Joback Method
tf	410.36	K	Joback Method
vc	0.935	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	707.24	J/molxK	717.16	Joback Method
cpg	723.36	J/molxK	746.93	Joback Method
cpg	738.68	J/molxK	776.70	Joback Method
cpg	753.17	J/molxK	806.47	Joback Method
cpg	766.84	J/molxK	836.24	Joback Method
cpg	779.69	J/molxK	866.01	Joback Method
cpg	791.71	J/molxK	895.78	Joback Method
dvisc	0.0011434	Paxs	410.36	Joback Method

dvisc	0.0005637	Paxs	461.49	Joback Method
dvisc	0.0003200	Paxs	512.63	Joback Method
dvisc	0.0002013	Paxs	563.76	Joback Method
dvisc	0.0001368	Paxs	614.89	Joback Method
dvisc	0.0000986	Paxs	666.03	Joback Method
dvisc	0.0000745	Paxs	717.16	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U360073&Units=SI
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

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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