

Glutaric acid, di(2-(2-methoxyethyl)hexyl) ester

Inchi:	InChI=1S/C23H44O6/c1-5-7-10-20(14-16-26-3)18-28-22(24)12-9-13-23(25)29-19-21(11-
InchiKey:	WWGWOAJJOXWCCE-UHFFFAOYSA-N
Formula:	C23H44O6
SMILES:	CCCC(CCOC)COC(=O)CCCC(=O)OCC(CCCC)CCOC
Mol. weight [g/mol]:	416.59

Physical Properties

Property code	Value	Unit	Source
gf	-539.94	kJ/mol	Joback Method
hf	-1282.65	kJ/mol	Joback Method
hfus	56.23	kJ/mol	Joback Method
hvap	89.15	kJ/mol	Joback Method
log10ws	-4.87		Crippen Method
logp	4.929		Crippen Method
mvol	361.550	ml/mol	McGowan Method
pc	890.00	kPa	Joback Method
rinpol	2732.00		NIST Webbook
tb	922.18	K	Joback Method
tc	1130.55	K	Joback Method
tf	507.75	K	Joback Method
vc	1.395	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1219.13	J/molxK	922.18	Joback Method
cpg	1296.87	J/molxK	1095.82	Joback Method
cpg	1284.59	J/molxK	1061.09	Joback Method
cpg	1270.68	J/molxK	1026.37	Joback Method
cpg	1255.14	J/molxK	991.64	Joback Method
cpg	1237.96	J/molxK	956.91	Joback Method
cpg	1307.52	J/molxK	1130.55	Joback Method
dvisc	0.0000156	Paxs	922.18	Joback Method
dvisc	0.0000212	Paxs	853.11	Joback Method

dvisc	0.0000306	Paxs	784.04	Joback Method
dvisc	0.0000472	Paxs	714.97	Joback Method
dvisc	0.0000801	Paxs	645.89	Joback Method
dvisc	0.0001543	Paxs	576.82	Joback Method
dvisc	0.0003549	Paxs	507.75	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=U358499&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

Latest version available from:

<https://www.chemeo.com/cid/54-447-6/Glutaric-acid-di-2-2-methoxyethyl-hexyl-ester.pdf>

Generated by Cheméo on 2024-04-26 10:20:29.148926266 +0000 UTC m=+16416078.069503578.

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