

Glutaric acid, decyl 2,6-dimethoxyphenyl ester

Inchi:	InChI=1S/C23H36O6/c1-4-5-6-7-8-9-10-11-18-28-21(24)16-13-17-22(25)29-23-19(26-2)
InchiKey:	RFGQKCRHLULDII-UHFFFAOYSA-N
Formula:	C23H36O6
SMILES:	CCCCCCCCCOC(=O)CCCC(=O)Oc1c(OC)cccc1OC
Mol. weight [g/mol]:	408.53

Physical Properties

Property code	Value	Unit	Source
gf	-441.91	kJ/mol	Joback Method
hf	-1058.50	kJ/mol	Joback Method
hfus	56.54	kJ/mol	Joback Method
hvap	93.52	kJ/mol	Joback Method
log10ws	-6.33		Crippen Method
logp	5.463		Crippen Method
mcvol	337.790	ml/mol	McGowan Method
pc	1063.10	kPa	Joback Method
rinpola	3018.00		NIST Webbook
tb	959.70	K	Joback Method
tc	1174.95	K	Joback Method
tf	589.21	K	Joback Method
vc	1.300	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1116.25	J/molxK	959.70	Joback Method
cpg	1176.42	J/molxK	1139.08	Joback Method
cpg	1167.68	J/molxK	1103.20	Joback Method
cpg	1157.29	J/molxK	1067.33	Joback Method
cpg	1145.26	J/molxK	1031.45	Joback Method
cpg	1131.58	J/molxK	995.58	Joback Method
cpg	1183.51	J/molxK	1174.95	Joback Method
dvisc	0.0000200	Paxs	959.70	Joback Method
dvisc	0.0000255	Paxs	897.95	Joback Method

dvisc	0.0000337	Paxs	836.20	Joback Method
dvisc	0.0000466	Paxs	774.46	Joback Method
dvisc	0.0000681	Paxs	712.71	Joback Method
dvisc	0.0001068	Paxs	650.96	Joback Method
dvisc	0.0001843	Paxs	589.21	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U358713&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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