Glutaric acid, dodec-2-en-1-yl 4-chloro-2-methoxyphenyl ester

Inchi: InChI=1S/C24H35ClO5/c1-3-4-5-6-7-8-9-10-11-12-18-29-23(26)14-13-15-24(27)30-21-17

InchiKey: HLZDGIOMLLNGET-VAWYXSNFSA-N

Formula: C24H35ClO5

SMILES: CCCCCCCCCC=CCOC(=O)CCCC(=O)Oc1ccc(Cl)cc1OC

Mol. weight [g/mol]: 438.99

Physical Properties

Property code	Value	Unit	Source
gf	-260.20	kJ/mol	Joback Method
hf	-845.44	kJ/mol	Joback Method
hfus	62.34	kJ/mol	Joback Method
hvap	97.68	kJ/mol	Joback Method
log10ws	-7.59		Crippen Method
logp	6.664		Crippen Method
mcvol	353.950	ml/mol	McGowan Method
pc	1020.08	kPa	Joback Method
rinpol	3161.00		NIST Webbook
rinpol	3161.00		NIST Webbook
tb	1001.75	K	Joback Method
tc	1226.43	K	Joback Method
tf	603.09	K	Joback Method
vc	1.367	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1144.85	J/mol×K	1001.75	Joback Method
cpg	1203.85	J/mol×K	1188.99	Joback Method
cpg	1194.85	J/mol×K	1151.54	Joback Method
cpg	1184.49	J/mol×K	1114.09	Joback Method
cpg	1172.72	J/mol×K	1076.64	Joback Method
cpg	1159.53	J/mol×K	1039.20	Joback Method
cpg	1211.54	J/mol×K	1226.43	Joback Method
dvisc	0.0000172	Pa×s	1001.75	Joback Method

dvisc	0.0000221	Pa×s	935.31	Joback Method
dvisc	0.0000295	Pa×s	868.86	Joback Method
dvisc	0.0000411	Pa×s	802.42	Joback Method
dvisc	0.0000610	Pa×s	735.98	Joback Method
dvisc	0.0000980	Pa×s	669.53	Joback Method
dvisc	0.0001745	Pa×s	603.09	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U393915&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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