Glutaric acid, hept-2-yl 4-chloro-2-methoxyphenyl ester

Inchi: InChI=1S/C19H27ClO5/c1-4-5-6-8-14(2)24-18(21)9-7-10-19(22)25-16-12-11-15(20)13-17

InchiKey: IXSYWCHIWWGRJX-UHFFFAOYSA-N

Formula: C19H27ClO5

SMILES: CCCCCC(C)OC(=O)CCCC(=O)Oc1ccc(Cl)cc1OC

Mol. weight [g/mol]: 370.87

Physical Properties

Property code	Value	Unit	Source
gf	-384.96	kJ/mol	Joback Method
hf	-864.74	kJ/mol	Joback Method
hfus	45.66	kJ/mol	Joback Method
hvap	86.21	kJ/mol	Joback Method
log10ws	-5.75		Crippen Method
logp	4.936		Crippen Method
mcvol	287.800	ml/mol	McGowan Method
pc	1376.84	kPa	Joback Method
rinpol	2536.00		NIST Webbook
rinpol	2536.00		NIST Webbook
tb	882.75	K	Joback Method
tc	1090.87	K	Joback Method
tf	536.82	K	Joback Method
vc	1.101	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	874.18	J/mol×K	882.75	Joback Method
cpg	932.97	J/mol×K	1056.18	Joback Method
cpg	923.67	J/mol×K	1021.49	Joback Method
cpg	913.15	J/mol×K	986.81	Joback Method
cpg	901.39	J/mol×K	952.12	Joback Method
cpg	888.41	J/mol×K	917.44	Joback Method
cpg	941.05	J/mol×K	1090.87	Joback Method
dvisc	0.0000379	Pa×s	882.75	Joback Method

dvisc	0.0000484	Pa×s	825.10	Joback Method
dvisc	0.0000642	Pa×s	767.44	Joback Method
dvisc	0.0000891	Pa×s	709.78	Joback Method
dvisc	0.0001310	Pa×s	652.13	Joback Method
dvisc	0.0002077	Pa×s	594.47	Joback Method
dvisc	0.0003635	Pa×s	536.82	Joback Method

Sources

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=U393908&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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