

Glutaric acid, 2-chloro-6-fluorophenyl 2-ethylbutyl ester

Inchi:	InChI=1S/C17H22ClFO4/c1-3-12(4-2)11-22-15(20)9-6-10-16(21)23-17-13(18)7-5-8-14(1)
InchiKey:	GINALBOPVWZBIT-UHFFFAOYSA-N
Formula:	C17H22ClFO4
SMILES:	CCC(CC)COC(=O)CCCC(=O)Oc1c(F)cccc1Cl
Mol. weight [g/mol]:	344.81

Physical Properties

Property code	Value	Unit	Source
gf	-491.61	kJ/mol	Joback Method
hf	-887.35	kJ/mol	Joback Method
hfus	42.38	kJ/mol	Joback Method
hvap	78.53	kJ/mol	Joback Method
log10ws	-5.19		Crippen Method
logp	4.534		Crippen Method
mvol	255.520	ml/mol	McGowan Method
pc	1561.05	kPa	Joback Method
rinpol	2242.00		NIST Webbook
rinpol	2242.00		NIST Webbook
tb	813.84	K	Joback Method
tc	1016.05	K	Joback Method
tf	492.64	K	Joback Method
vc	0.989	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	738.44	J/molxK	813.84	Joback Method
cpg	752.32	J/molxK	847.54	Joback Method
cpg	765.19	J/molxK	881.24	Joback Method
cpg	777.06	J/molxK	914.95	Joback Method
cpg	787.95	J/molxK	948.65	Joback Method
cpg	797.87	J/molxK	982.35	Joback Method
cpg	806.84	J/molxK	1016.05	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U391670&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
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvp:	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
rinp:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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