

Glutaric acid, 1-(2-fluorophenyl)ethyl pentyl ester

Inchi:	InChI=1S/C18H25FO4/c1-3-4-7-13-22-17(20)11-8-12-18(21)23-14(2)15-9-5-6-10-16(15)
InchiKey:	UJQCYDZOMCMYSD-UHFFFAOYSA-N
Formula:	C18H25FO4
SMILES:	CCCCCOC(=O)CCCC(=O)OC(C)c1ccccc1F
Mol. weight [g/mol]:	324.39

Physical Properties

Property code	Value	Unit	Source
gf	-461.63	kJ/mol	Joback Method
hf	-880.78	kJ/mol	Joback Method
hfus	41.16	kJ/mol	Joback Method
hvap	75.71	kJ/mol	Joback Method
log10ws	-4.98		Crippen Method
logp	4.334		Crippen Method
mcvol	257.370	ml/mol	McGowan Method
pc	1508.15	kPa	Joback Method
rinpol	2193.00		NIST Webbook
tb	794.31	K	Joback Method
tc	990.96	K	Joback Method
tf	461.47	K	Joback Method
vc	0.996	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	769.34	J/molxK	794.31	Joback Method
cpg	784.69	J/molxK	827.09	Joback Method
cpg	799.01	J/molxK	859.86	Joback Method
cpg	812.32	J/molxK	892.64	Joback Method
cpg	824.63	J/molxK	925.41	Joback Method
cpg	835.97	J/molxK	958.19	Joback Method
cpg	846.35	J/molxK	990.96	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
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=U377074&Units=SI

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
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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