

Glutaric acid, 1,1,1-trifluoroprop-2-yl 2-propylphenyl ester

Inchi: InChI=1S/C17H21F3O4/c1-3-7-13-8-4-5-9-14(13)24-16(22)11-6-10-15(21)23-12(2)17(18)
InchiKey: TYCVVWURQPREGP-UHFFFAOYSA-N
Formula: C17H21F3O4
SMILES: CCCc1ccccc1OC(=O)CCCC(=O)OC(C)C(F)(F)F
Mol. weight [g/mol]: 346.34

Physical Properties

Property code	Value	Unit	Source
gf	-856.83	kJ/mol	Joback Method
hf	-1261.11	kJ/mol	Joback Method
hfus	37.31	kJ/mol	Joback Method
hvap	70.55	kJ/mol	Joback Method
log10ws	-5.16		Crippen Method
logp	4.209		Crippen Method
mvol	246.820	ml/mol	McGowan Method
pc	1537.87	kPa	Joback Method
rinpol	1845.00		NIST Webbook
rinpol	1845.00		NIST Webbook
tb	766.74	K	Joback Method
tc	959.29	K	Joback Method
tf	453.80	K	Joback Method
vc	0.965	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	729.74	J/mol×K	766.74	Joback Method
cpg	744.04	J/mol×K	798.83	Joback Method
cpg	757.38	J/mol×K	830.92	Joback Method
cpg	769.80	J/mol×K	863.02	Joback Method
cpg	781.31	J/mol×K	895.11	Joback Method
cpg	791.96	J/mol×K	927.20	Joback Method
cpg	801.78	J/mol×K	959.29	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.cheméo.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=U392134&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
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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