

Glutaric acid, 1-(4-fluorophenyl)ethyl propyl ester

Inchi:	InChI=1S/C16H21FO4/c1-3-11-20-15(18)5-4-6-16(19)21-12(2)13-7-9-14(17)10-8-13/h7-
InchiKey:	XKXSNUQMENURIC-UHFFFAOYSA-N
Formula:	C16H21FO4
SMILES:	CCCOC(=O)CCCC(=O)OC(C)c1ccc(F)cc1
Mol. weight [g/mol]:	296.33

Physical Properties

Property code	Value	Unit	Source
gf	-478.47	kJ/mol	Joback Method
hf	-839.50	kJ/mol	Joback Method
hfus	35.98	kJ/mol	Joback Method
hvap	71.26	kJ/mol	Joback Method
log10ws	-4.14		Crippen Method
logp	3.553		Crippen Method
mcvol	229.190	ml/mol	McGowan Method
pc	1760.97	kPa	Joback Method
rinpola	1985.00		NIST Webbook
tb	748.55	K	Joback Method
tc	946.59	K	Joback Method
tf	438.93	K	Joback Method
vc	0.883	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	656.73	J/mol×K	748.55	Joback Method
cpg	671.50	J/mol×K	781.56	Joback Method
cpg	685.32	J/mol×K	814.56	Joback Method
cpg	698.20	J/mol×K	847.57	Joback Method
cpg	710.16	J/mol×K	880.57	Joback Method
cpg	721.20	J/mol×K	913.58	Joback Method
cpg	731.34	J/mol×K	946.59	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U377101&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
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
rinpola:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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