

Glutaric acid, 3-fluorophenyl pentyl ester

Inchi:	InChI=1S/C16H21FO4/c1-2-3-4-11-20-15(18)9-6-10-16(19)21-14-8-5-7-13(17)12-14/h5,7
InchiKey:	XPXBZKCTEZTPKY-UHFFFAOYSA-N
Formula:	C16H21FO4
SMILES:	CCCCCOC(=O)CCCC(=O)Oc1cccc(F)c1
Mol. weight [g/mol]:	296.33

Physical Properties

Property code	Value	Unit	Source
gf	-476.03	kJ/mol	Joback Method
hf	-834.22	kJ/mol	Joback Method
hfus	39.50	kJ/mol	Joback Method
hvap	71.64	kJ/mol	Joback Method
log10ws	-4.33		Crippen Method
logp	3.635		Crippen Method
mcvol	229.190	ml/mol	McGowan Method
pc	1749.21	kPa	Joback Method
rinpola	2083.00		NIST Webbook
rinpola	2083.00		NIST Webbook
tb	748.99	K	Joback Method
tc	944.39	K	Joback Method
tf	453.93	K	Joback Method
vc	0.889	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	656.18	J/molxK	748.99	Joback Method
cpg	670.75	J/molxK	781.56	Joback Method
cpg	684.40	J/molxK	814.12	Joback Method
cpg	697.14	J/molxK	846.69	Joback Method
cpg	708.99	J/molxK	879.26	Joback Method
cpg	719.96	J/molxK	911.83	Joback Method
cpg	730.06	J/molxK	944.39	Joback Method

Sources

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=U359049&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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

Latest version available from:

<https://www.chemeo.com/cid/62-466-6/Glutaric-acid-3-fluorophenyl-pentyl-ester.pdf>

Generated by Cheméo on 2024-04-20 14:50:51.995817755 +0000 UTC m=+15913900.916395068.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.