

Glutaric acid, tridec-2-yn-1-yl 3-fluorophenyl ester

Inchi:	InChI=1S/C24H33FO4/c1-2-3-4-5-6-7-8-9-10-11-12-19-28-23(26)17-14-18-24(27)29-22-
InchiKey:	NRXBCZOPLLOXPX-UHFFFAOYSA-N
Formula:	C24H33FO4
SMILES:	CCCCCCCCC#CCOC(=O)CCCC(=O)Oc1cccc(F)c1
Mol. weight [g/mol]:	404.51

Physical Properties

Property code	Value	Unit	Source
gf	-205.87	kJ/mol	Joback Method
hf	-727.04	kJ/mol	Joback Method
hfus	63.34	kJ/mol	Joback Method
hvap	91.60	kJ/mol	Joback Method
log10ws	-7.47		Crippen Method
logp	5.979		Crippen Method
mcvol	333.310	ml/mol	McGowan Method
pc	1111.85	kPa	Joback Method
rinqol	2892.00		NIST Webbook
tb	941.03	K	Joback Method
tc	1153.98	K	Joback Method
tf	650.19	K	Joback Method
vc	1.300	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1071.58	J/molxK	941.03	Joback Method
cpg	1087.28	J/molxK	976.52	Joback Method
cpg	1101.65	J/molxK	1012.01	Joback Method
cpg	1114.74	J/molxK	1047.50	Joback Method
cpg	1126.58	J/molxK	1082.99	Joback Method
cpg	1137.21	J/molxK	1118.49	Joback Method
cpg	1146.65	J/molxK	1153.98	Joback Method

Sources

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=U392100&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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
h vap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
m cvol:	McGowan's characteristic volume
pc:	Critical Pressure
r inpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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