

Glutaric acid, hex-4-yn-3-yl 2,3,5-trichlorophenyl ester

Inchi: InChI=1S/C17H17Cl3O4/c1-3-6-12(4-2)23-15(21)7-5-8-16(22)24-14-10-11(18)9-13(19)1
InchiKey: KJGIIBMDVDPJGP-UHFFFAOYSA-N
Formula: C17H17Cl3O4
SMILES: CC#CC(CC)OC(=O)CCCC(=O)Oc1cc(Cl)cc(Cl)c1Cl
Mol. weight [g/mol]: 391.67

Physical Properties

Property code	Value	Unit	Source
gf	-127.49	kJ/mol	Joback Method
hf	-461.89	kJ/mol	Joback Method
hfus	50.42	kJ/mol	Joback Method
hvap	90.93	kJ/mol	Joback Method
log10ws	-6.38		Crippen Method
logp	5.068		Crippen Method
mvol	269.630	ml/mol	McGowan Method
pc	1714.61	kPa	Joback Method
rinpol	2587.00		NIST Webbook
rinpol	2587.00		NIST Webbook
tb	903.41	K	Joback Method
tc	1134.67	K	Joback Method
tf	670.51	K	Joback Method
vc	1.030	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	722.48	J/molxK	903.41	Joback Method
cpg	733.53	J/molxK	941.95	Joback Method
cpg	743.43	J/molxK	980.50	Joback Method
cpg	752.17	J/molxK	1019.04	Joback Method
cpg	759.78	J/molxK	1057.59	Joback Method
cpg	766.25	J/molxK	1096.13	Joback Method
cpg	771.60	J/molxK	1134.67	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=U392179&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

Latest version available from:

<https://www.cheméo.com/cid/113-776-5/Glutaric-acid-hex-4-yn-3-yl-2-3-5-trichlorophenyl-ester.pdf>

Generated by Cheméo on 2024-05-03 01:28:59.989098972 +0000 UTC m=+16988988.909676287.

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