

Glutaric acid, but-3-yn-2-yl 2-chloro-5-methylphenyl ester

Inchi:	InChI=1S/C16H17ClO4/c1-4-12(3)20-15(18)6-5-7-16(19)21-14-10-11(2)8-9-13(14)17/h1,
InchiKey:	FHMCLXANRRHSST-UHFFFAOYSA-N
Formula:	C16H17ClO4
SMILES:	<chem>C#CC(C)OC(=O)CCCC(=O)Oc1cc(C)ccc1Cl</chem>
Mol. weight [g/mol]:	308.76

Physical Properties

Property code	Value	Unit	Source
gf	-82.15	kJ/mol	Joback Method
hf	-378.70	kJ/mol	Joback Method
hfus	39.68	kJ/mol	Joback Method
hvap	76.98	kJ/mol	Joback Method
log10ws	-4.65		Crippen Method
logp	3.289		Crippen Method
mcvol	231.060	ml/mol	McGowan Method
pc	1989.43	kPa	Joback Method
rinpol	2149.00		NIST Webbook
rinpol	2149.00		NIST Webbook
tb	781.81	K	Joback Method
tc	1000.88	K	Joback Method
tf	527.75	K	Joback Method
vc	0.876	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	622.18	J/mol×K	781.81	Joback Method
cpg	635.33	J/mol×K	818.32	Joback Method
cpg	647.48	J/mol×K	854.83	Joback Method
cpg	658.67	J/mol×K	891.34	Joback Method
cpg	668.89	J/mol×K	927.86	Joback Method
cpg	678.18	J/mol×K	964.37	Joback Method
cpg	686.53	J/mol×K	1000.88	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=U393416&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.cheméo.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
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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