

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

<b>Inchi:</b>	InChI=1S/C17H17Cl3O4/c1-3-6-11(4-2)23-16(21)7-5-8-17(22)24-15-10-13(19)12(18)9-14
<b>InchiKey:</b>	XIIZFAUNSMFTFK-UHFFFAOYSA-N
<b>Formula:</b>	C17H17Cl3O4
<b>SMILES:</b>	CC#CC(CC)OC(=O)CCCC(=O)Oc1cc(Cl)c(Cl)cc1Cl
<b>Mol. weight [g/mol]:</b>	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
mcvol	269.630	ml/mol	McGowan Method
pc	1714.61	kPa	Joback Method
rinpol	2603.00		NIST Webbook
rinpol	2603.00		NIST Webbook
tb	903.41	K	Joback Method
tc	1134.67	K	Joback Method
tf	670.51	K	Joback Method
vc	1.030	m <sup>3</sup> /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

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U392161&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U392161&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvp:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinp:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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