

# Succinic acid, hex-4-yn-3-yl pentachlorophenyl ester

<b>Inchi:</b>	InChI=1S/C16H13Cl5O4/c1-3-5-8(4-2)24-9(22)6-7-10(23)25-16-14(20)12(18)11(17)13(19)
<b>InchiKey:</b>	GHGGYBBXDSIBDS-UHFFFAOYSA-N
<b>Formula:</b>	C16H13Cl5O4
<b>SMILES:</b>	CC#CC(CC)OC(=O)CCC(=O)Oc1c(Cl)c(Cl)c(Cl)c(Cl)c1Cl
<b>Mol. weight [g/mol]:</b>	446.54

## Physical Properties

Property code	Value	Unit	Source
gf	-179.03	kJ/mol	Joback Method
hf	-495.67	kJ/mol	Joback Method
hfus	55.45	kJ/mol	Joback Method
hvap	98.80	kJ/mol	Joback Method
log10ws	-7.33		Crippen Method
logp	5.984		Crippen Method
mcvol	280.020	ml/mol	McGowan Method
pc	1703.31	kPa	Joback Method
rinpol	2796.00		NIST Webbook
rinpol	2796.00		NIST Webbook
tb	965.35	K	Joback Method
tc	1206.56	K	Joback Method
tf	744.12	K	Joback Method
vc	1.073	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	699.82	J/mol×K	965.35	Joback Method
cpg	707.91	J/mol×K	1005.55	Joback Method
cpg	714.81	J/mol×K	1045.75	Joback Method
cpg	720.51	J/mol×K	1085.95	Joback Method
cpg	725.00	J/mol×K	1126.15	Joback Method
cpg	728.27	J/mol×K	1166.35	Joback Method
cpg	730.31	J/mol×K	1206.56	Joback Method

# Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U390048&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U390048&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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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