

# Fumaric acid, isohexyl pentachlorophenyl ester

Inchi:	InChI=1S/C16H15Cl5O4/c1-8(2)4-3-7-24-9(22)5-6-10(23)25-16-14(20)12(18)11(17)13(19)
InchiKey:	BYHQDWGIFGHXMT-AATRIKPKSA-N
Formula:	C16H15Cl5O4
SMILES:	CC(C)CCCOC(=O)C=CC(=O)Oc1c(Cl)c(Cl)c(Cl)c(Cl)c1Cl
Mol. weight [g/mol]:	448.55

## Physical Properties

Property code	Value	Unit	Source
gf	-301.61	kJ/mol	Joback Method
hf	-650.75	kJ/mol	Joback Method
hfus	52.53	kJ/mol	Joback Method
hvap	96.60	kJ/mol	Joback Method
log10ws	-7.03		Crippen Method
logp	6.395		Crippen Method
mvol	284.320	ml/mol	McGowan Method
pc	1561.05	kPa	Joback Method
rinpol	2867.00		NIST Webbook
tb	960.51	K	Joback Method
tc	1192.81	K	Joback Method
tf	632.94	K	Joback Method
vc	1.091	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	728.43	J/molxK	960.51	Joback Method
cpg	737.24	J/molxK	999.23	Joback Method
cpg	745.03	J/molxK	1037.94	Joback Method
cpg	751.82	J/molxK	1076.66	Joback Method
cpg	757.63	J/molxK	1115.38	Joback Method
cpg	762.46	J/molxK	1154.09	Joback Method
cpg	766.34	J/molxK	1192.81	Joback Method
dvisc	0.0002160	Paxs	632.94	Joback Method
dvisc	0.0001446	Paxs	687.54	Joback Method

dvisc	0.0001026	Paxs	742.13	Joback Method
dvisc	0.0000764	Paxs	796.73	Joback Method
dvisc	0.0000590	Paxs	851.32	Joback Method
dvisc	0.0000471	Paxs	905.91	Joback Method
dvisc	0.0000385	Paxs	960.51	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=U348183&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U348183&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>dvisc:</b>	Dynamic viscosity
<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>hvap:</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>rinpol:</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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