

# Fumaric acid, naphth-2-yl 2,2-dichloroethyl ester

Inchi:	InChI=1S/C16H12Cl2O4/c17-14(18)10-21-15(19)7-8-16(20)22-13-6-5-11-3-1-2-4-12(11)
InchiKey:	ZUXDFJBCQQSUIG-BQYQJAHWSA-N
Formula:	C16H12Cl2O4
SMILES:	O=C(C=CC(=O)Oc1ccc2ccccc2c1)OCC(Cl)Cl
Mol. weight [g/mol]:	339.17

## Physical Properties

Property code	Value	Unit	Source
gf	-120.65	kJ/mol	Joback Method
hf	-366.58	kJ/mol	Joback Method
hfus	38.51	kJ/mol	Joback Method
hvap	82.44	kJ/mol	Joback Method
log10ws	-4.89		Crippen Method
logp	3.648		Crippen Method
mvol	228.140	ml/mol	McGowan Method
pc	2235.52	kPa	Joback Method
rinpol	2609.00		NIST Webbook
rinpol	2609.00		NIST Webbook
tb	847.28	K	Joback Method
tc	1085.54	K	Joback Method
tf	525.80	K	Joback Method
vc	0.866	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	597.34	J/molxK	847.28	Joback Method
cpg	642.75	J/molxK	1045.83	Joback Method
cpg	635.20	J/molxK	1006.12	Joback Method
cpg	626.95	J/molxK	966.41	Joback Method
cpg	617.94	J/molxK	926.70	Joback Method
cpg	608.10	J/molxK	886.99	Joback Method
cpg	649.70	J/molxK	1085.54	Joback Method
dvisc	0.0001131	Paxs	847.28	Joback Method

dvisc	0.0001391	Paxs	793.70	Joback Method
dvisc	0.0001763	Paxs	740.12	Joback Method
dvisc	0.0002317	Paxs	686.54	Joback Method
dvisc	0.0003191	Paxs	632.96	Joback Method
dvisc	0.0004662	Paxs	579.38	Joback Method
dvisc	0.0007359	Paxs	525.80	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U405827&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U405827&amp;Units=SI</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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