

# Dichloroacetic acid, 2-naphthyl ester

<b>Inchi:</b>	InChI=1S/C12H8Cl2O2/c13-11(14)12(15)16-10-6-5-8-3-1-2-4-9(8)7-10/h1-7,11H
<b>InchiKey:</b>	BINBEEOLDVVDP5-UHFFFAOYSA-N
<b>Formula:</b>	C12H8Cl2O2
<b>SMILES:</b>	O=C(Oc1ccc2ccccc2c1)C(Cl)Cl
<b>Mol. weight [g/mol]:</b>	255.10

## Physical Properties

Property code	Value	Unit	Source
gf	-0.63	kJ/mol	Joback Method
hf	-156.44	kJ/mol	Joback Method
hfus	25.17	kJ/mol	Joback Method
hvap	64.42	kJ/mol	Joback Method
log10ws	-4.50		Crippen Method
logp	3.549		Crippen Method
mcvol	168.640	ml/mol	McGowan Method
pc	2989.32	kPa	Joback Method
rinpol	1859.00		NIST Webbook
tb	675.31	K	Joback Method
tc	921.67	K	Joback Method
tf	413.64	K	Joback Method
vc	0.637	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	383.57	J/molxK	675.31	Joback Method
cpg	394.91	J/molxK	716.37	Joback Method
cpg	405.28	J/molxK	757.43	Joback Method
cpg	414.77	J/molxK	798.49	Joback Method
cpg	423.42	J/molxK	839.55	Joback Method
cpg	431.33	J/molxK	880.61	Joback Method
cpg	438.55	J/molxK	921.67	Joback Method
dvisc	0.0015253	Paxs	413.64	Joback Method
dvisc	0.0009902	Paxs	457.25	Joback Method

dvisc	0.0006931	Paxs	500.86	Joback Method
dvisc	0.0005136	Paxs	544.48	Joback Method
dvisc	0.0003979	Paxs	588.09	Joback Method
dvisc	0.0003194	Paxs	631.70	Joback Method
dvisc	0.0002637	Paxs	675.31	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=U307590&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U307590&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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