

# 1-Naphthalenol, 2,4-dichloro-

<b>Other names:</b>	1-Naphthol, 2,4-dichloro- 2,4-Dichloro-«alpha»-naphthol 2,4-Dichloro-1-naphthol 2,4-Dichloronaphthol
<b>Inchi:</b>	InChI=1S/C10H6Cl2O/c11-8-5-9(12)10(13)7-4-2-1-3-6(7)8/h1-5,13H
<b>InchiKey:</b>	HVLJEMXDXOTWLV-UHFFFAOYSA-N
<b>Formula:</b>	C10H6Cl2O
<b>SMILES:</b>	Oc1c(Cl)cc(Cl)c2ccccc12
<b>Mol. weight [g/mol]:</b>	213.06
<b>CAS:</b>	2050-76-2

## Physical Properties

Property code	Value	Unit	Source
gf	54.64	kJ/mol	Joback Method
hf	-53.86	kJ/mol	Joback Method
hfus	26.11	kJ/mol	Joback Method
hvap	64.88	kJ/mol	Joback Method
log10ws	-4.19		Crippen Method
logp	3.852		Crippen Method
mcvol	138.890	ml/mol	McGowan Method
pc	4124.99	kPa	Joback Method
rinpol	1648.00		NIST Webbook
tb	639.30	K	Joback Method
tc	898.93	K	Joback Method
tf	458.18	K	Joback Method
vc	0.473	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	296.92	J/molxK	639.30	Joback Method
cpg	336.03	J/molxK	855.66	Joback Method
cpg	329.13	J/molxK	812.38	Joback Method
cpg	321.92	J/molxK	769.11	Joback Method

cpg	314.25	J/molxK	725.84	Joback Method
cpg	305.97	J/molxK	682.57	Joback Method
cpg	342.78	J/molxK	898.93	Joback Method
dvisc	0.0000511	Paxs	639.30	Joback Method
dvisc	0.0000683	Paxs	609.11	Joback Method
dvisc	0.0000941	Paxs	578.93	Joback Method
dvisc	0.0001343	Paxs	548.74	Joback Method
dvisc	0.0001997	Paxs	518.55	Joback Method
dvisc	0.0003120	Paxs	488.37	Joback Method
dvisc	0.0005168	Paxs	458.18	Joback Method

## Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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=C2050762&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2050762&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

Latest version available from:

<https://www.cheméo.com/cid/56-709-3/1-Naphthalenol-2-4-dichloro.pdf>

Generated by Cheméo on 2024-04-25 06:35:29.46576348 +0000 UTC m=+16316178.386340799.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.