

# 1-Naphthoic acid, 2,4,5-trichlorophenyl ester

<b>Inchi:</b>	InChI=1S/C17H9Cl3O2/c18-13-8-15(20)16(9-14(13)19)22-17(21)12-7-3-5-10-4-1-2-6-11
<b>InchiKey:</b>	ARGSNZNGENVAPU-UHFFFAOYSA-N
<b>Formula:</b>	C17H9Cl3O2
<b>SMILES:</b>	O=C(Oc1cc(Cl)c(Cl)cc1Cl)c1cccc2ccccc12
<b>Mol. weight [g/mol]:</b>	351.61

## Physical Properties

Property code	Value	Unit	Source
gf	115.50	kJ/mol	Joback Method
hf	-67.98	kJ/mol	Joback Method
hfus	38.71	kJ/mol	Joback Method
hvap	84.59	kJ/mol	Joback Method
log10ws	-7.42		Crippen Method
logp	6.019		Crippen Method
mcvol	227.570	ml/mol	McGowan Method
pc	2338.29	kPa	Joback Method
rinpol	2848.00		NIST Webbook
rinpol	2848.00		NIST Webbook
tb	869.20	K	Joback Method
tc	1132.67	K	Joback Method
tf	578.89	K	Joback Method
vc	0.865	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	561.03	J/molxK	869.20	Joback Method
cpg	571.25	J/molxK	913.11	Joback Method
cpg	580.50	J/molxK	957.02	Joback Method
cpg	588.88	J/molxK	1000.94	Joback Method
cpg	596.47	J/molxK	1044.85	Joback Method
cpg	603.38	J/molxK	1088.76	Joback Method
cpg	609.70	J/molxK	1132.67	Joback Method
dvisc	0.0006244	Paxs	578.89	Joback Method

dvisc	0.0004560	Paxs	627.28	Joback Method
dvisc	0.0003484	Paxs	675.66	Joback Method
dvisc	0.0002760	Paxs	724.05	Joback Method
dvisc	0.0002250	Paxs	772.43	Joback Method
dvisc	0.0001880	Paxs	820.82	Joback Method
dvisc	0.0001602	Paxs	869.20	Joback Method

## Sources

<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=U355695&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U355695&amp;Units=SI</a>
<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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>

## Legend

<b>cp<sub>g</sub>:</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>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>m<sub>cvol</sub>:</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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