

# Fumaric acid, 3-chlorophenyl naphth-2-ylmethyl ester

**Inchi:** InChI=1S/C21H15ClO4/c22-18-6-3-7-19(13-18)26-21(24)11-10-20(23)25-14-15-8-9-16-4

**InchiKey:** JOJMNJMYFPMZSC-ZHACJKMWSA-N

**Formula:** C21H15ClO4

**SMILES:** O=C(C=CC(=O)Oc1cccc(Cl)c1)OCc1ccc2ccccc2c1

**Mol. weight [g/mol]:** 366.79

## Physical Properties

Property code	Value	Unit	Source
gf	38.60	kJ/mol	Joback Method
hf	-223.70	kJ/mol	Joback Method
hfus	44.44	kJ/mol	Joback Method
hvap	92.51	kJ/mol	Joback Method
log10ws	-6.36		Crippen Method
logp	4.698		Crippen Method
mcvol	262.590	ml/mol	McGowan Method
pc	1975.31	kPa	Joback Method
rinpol	3076.00		NIST Webbook
rinpol	3076.00		NIST Webbook
tb	956.35	K	Joback Method
tc	1206.80	K	Joback Method
tf	606.17	K	Joback Method
vc	0.995	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	749.87	J/molxK	956.35	Joback Method
cpg	797.15	J/molxK	1165.06	Joback Method
cpg	789.22	J/molxK	1123.31	Joback Method
cpg	780.63	J/molxK	1081.57	Joback Method
cpg	771.28	J/molxK	1039.83	Joback Method
cpg	761.06	J/molxK	998.09	Joback Method
cpg	804.54	J/molxK	1206.80	Joback Method
dvisc	0.0000779	Paxs	956.35	Joback Method

dvisc	0.0000945	Paxs	897.99	Joback Method
dvisc	0.0001177	Paxs	839.62	Joback Method
dvisc	0.0001515	Paxs	781.26	Joback Method
dvisc	0.0002032	Paxs	722.90	Joback Method
dvisc	0.0002869	Paxs	664.53	Joback Method
dvisc	0.0004328	Paxs	606.17	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=U405857&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U405857&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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