

# Fumaric acid, naphth-1-yl 2,3-dichlorophenyl ester

<b>Inchi:</b>	InChI=1S/C20H12Cl2O4/c21-15-8-4-10-17(20(15)22)26-19(24)12-11-18(23)25-16-9-3-6-
<b>InchiKey:</b>	IIZDNOZTVZYROQ-VAWYXSNFSA-N
<b>Formula:</b>	C20H12Cl2O4
<b>SMILES:</b>	O=C(C=CC(=O)Oc1cccc2ccccc12)Oc1cccc(Cl)c1Cl
<b>Mol. weight [g/mol]:</b>	387.21

## Physical Properties

Property code	Value	Unit	Source
gf	8.62	kJ/mol	Joback Method
hf	-230.27	kJ/mol	Joback Method
hfus	45.66	kJ/mol	Joback Method
hvap	95.33	kJ/mol	Joback Method
log10ws	-6.78		Crippen Method
logp	5.214		Crippen Method
mcvol	260.740	ml/mol	McGowan Method
pc	2054.89	kPa	Joback Method
rinpol	3125.00		NIST Webbook
rinpol	3125.00		NIST Webbook
tb	975.88	K	Joback Method
tc	1232.56	K	Joback Method
tf	637.34	K	Joback Method
vc	0.988	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	709.58	J/molxK	975.88	Joback Method
cpg	750.17	J/molxK	1189.78	Joback Method
cpg	743.46	J/molxK	1147.00	Joback Method
cpg	736.15	J/molxK	1104.22	Joback Method
cpg	728.14	J/molxK	1061.44	Joback Method
cpg	719.32	J/molxK	1018.66	Joback Method
cpg	756.38	J/molxK	1232.56	Joback Method
dvisc	0.0000795	Paxs	975.88	Joback Method

dvisc	0.0000952	Paxs	919.46	Joback Method
dvisc	0.0001167	Paxs	863.03	Joback Method
dvisc	0.0001472	Paxs	806.61	Joback Method
dvisc	0.0001923	Paxs	750.19	Joback Method
dvisc	0.0002623	Paxs	693.76	Joback Method
dvisc	0.0003781	Paxs	637.34	Joback Method

## Sources

<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=U405816&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U405816&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>

## 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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