

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

**Inchi:** InChI=1S/C20H13ClO4/c21-16-6-3-7-17(13-16)24-19(22)10-11-20(23)25-18-9-8-14-4-1-2  
**InchiKey:** HGLSZGDWKLONDY-ZHACJKMWSA-N  
**Formula:** C20H13ClO4  
**SMILES:** O=C(C=CC(=O)Oc1ccc2ccccc2c1)Oc1cccc(Cl)c1  
**Mol. weight [g/mol]:** 352.77

## Physical Properties

Property code	Value	Unit	Source
gf	30.18	kJ/mol	Joback Method
hf	-203.06	kJ/mol	Joback Method
hfus	41.85	kJ/mol	Joback Method
hvap	90.28	kJ/mol	Joback Method
log10ws	-6.09		Crippen Method
logp	4.560		Crippen Method
mvol	248.500	ml/mol	McGowan Method
pc	2155.30	kPa	Joback Method
rinpol	2965.00		NIST Webbook
rinpol	2965.00		NIST Webbook
tb	933.47	K	Joback Method
tc	1187.29	K	Joback Method
tf	594.90	K	Joback Method
vc	0.939	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	693.23	J/molxK	933.47	Joback Method
cpg	739.00	J/molxK	1144.99	Joback Method
cpg	731.40	J/molxK	1102.69	Joback Method
cpg	723.14	J/molxK	1060.38	Joback Method
cpg	714.09	J/molxK	1018.08	Joback Method
cpg	704.16	J/molxK	975.77	Joback Method
cpg	746.04	J/molxK	1187.29	Joback Method
dvisc	0.0000889	Paxs	933.47	Joback Method

dvisc	0.0001074	Paxs	877.04	Joback Method
dvisc	0.0001332	Paxs	820.61	Joback Method
dvisc	0.0001705	Paxs	764.19	Joback Method
dvisc	0.0002270	Paxs	707.76	Joback Method
dvisc	0.0003177	Paxs	651.33	Joback Method
dvisc	0.0004738	Paxs	594.90	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U405832&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U405832&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.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>

## 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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