

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

Inchi:	InChI=1S/C20H22O4/c1-4-17(14(2)3)23-19(21)12-13-20(22)24-18-11-7-9-15-8-5-6-10-16
InchiKey:	TYHKHNKYZLQAOZ-OUKQBFOZSA-N
Formula:	C20H22O4
SMILES:	CCC(OC(=O)C=CC(=O)Oc1cccc2ccccc12)C(C)C
Mol. weight [g/mol]:	326.39

## Physical Properties

Property code	Value	Unit	Source
gf	-65.55	kJ/mol	Joback Method
hf	-422.94	kJ/mol	Joback Method
hfus	36.96	kJ/mol	Joback Method
hvap	82.19	kJ/mol	Joback Method
log10ws	-5.52		Crippen Method
logp	4.279		Crippen Method
mcvol	260.020	ml/mol	McGowan Method
pc	1711.78	kPa	Joback Method
rinpol	2502.00		NIST Webbook
rinpol	2502.00		NIST Webbook
tb	863.50	K	Joback Method
tc	1088.27	K	Joback Method
tf	496.04	K	Joback Method
vc	0.986	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	776.80	J/mol×K	863.50	Joback Method
cpg	791.21	J/mol×K	900.96	Joback Method
cpg	804.55	J/mol×K	938.42	Joback Method
cpg	816.89	J/mol×K	975.89	Joback Method
cpg	828.29	J/mol×K	1013.35	Joback Method
cpg	838.85	J/mol×K	1050.81	Joback Method
cpg	848.61	J/mol×K	1088.27	Joback Method
dvisc	0.0007818	Paxs	496.04	Joback Method

dvisc	0.0004330	Paxs	557.28	Joback Method
dvisc	0.0002696	Paxs	618.53	Joback Method
dvisc	0.0001828	Paxs	679.77	Joback Method
dvisc	0.0001322	Paxs	741.01	Joback Method
dvisc	0.0001004	Paxs	802.26	Joback Method
dvisc	0.0000793	Paxs	863.50	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=U405806&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U405806&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.chemeo.com/cid/87-431-7/Fumaric-acid-naphth-1-yl-2-methylpent-3-yl-ester.pdf>

Generated by Cheméo on 2024-04-30 02:27:06.347633024 +0000 UTC m=+16733275.268210341.

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