

# Fumaric acid, naphth-1-yl dec-2-yl ester

<b>Inchi:</b>	InChI=1S/C24H30O4/c1-3-4-5-6-7-8-12-19(2)27-23(25)17-18-24(26)28-22-16-11-14-20-
<b>InchiKey:</b>	WQVYKQVUYLDECX-ISLYRVAYSAN
<b>Formula:</b>	C24H30O4
<b>SMILES:</b>	CCCCCCCCC(C)OC(=O)C=CC(=O)Oc1cccc2ccccc12
<b>Mol. weight [g/mol]:</b>	382.49

## Physical Properties

Property code	Value	Unit	Source
gf	-29.43	kJ/mol	Joback Method
hf	-500.22	kJ/mol	Joback Method
hfus	50.84	kJ/mol	Joback Method
hvap	91.48	kJ/mol	Joback Method
log10ws	-7.44		Crippen Method
logp	5.984		Crippen Method
mvol	316.380	ml/mol	McGowan Method
pc	1267.35	kPa	Joback Method
rinpol	2947.00		NIST Webbook
rinpol	2947.00		NIST Webbook
tb	955.46	K	Joback Method
tc	1176.79	K	Joback Method
tf	556.12	K	Joback Method
vc	1.216	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1011.97	J/molxK	955.46	Joback Method
cpg	1027.15	J/molxK	992.35	Joback Method
cpg	1041.26	J/molxK	1029.24	Joback Method
cpg	1054.39	J/molxK	1066.13	Joback Method
cpg	1066.62	J/molxK	1103.01	Joback Method
cpg	1078.04	J/molxK	1139.90	Joback Method
cpg	1088.73	J/molxK	1176.79	Joback Method
dvisc	0.0004862	Paxs	556.12	Joback Method

dvisc	0.0002729	Paxs	622.68	Joback Method
dvisc	0.0001712	Paxs	689.23	Joback Method
dvisc	0.0001166	Paxs	755.79	Joback Method
dvisc	0.0000845	Paxs	822.35	Joback Method
dvisc	0.0000643	Paxs	888.90	Joback Method
dvisc	0.0000508	Paxs	955.46	Joback Method

## Sources

<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=U405815&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U405815&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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>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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