

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

Inchi:	InChI=1S/C17H12F4O4/c18-16(19)17(20,21)10-24-14(22)7-8-15(23)25-13-6-5-11-3-1-2-
InchiKey:	NXATWHFSNAFXCX-BQYQJAHWSA-N
Formula:	C17H12F4O4
SMILES:	O=C(C=CC(=O)Oc1ccc2ccccc2c1)OCC(F)(F)C(F)F
Mol. weight [g/mol]:	356.27

## Physical Properties

Property code	Value	Unit	Source
gf	-864.77	kJ/mol	Joback Method
hf	-1148.93	kJ/mol	Joback Method
hfus	37.62	kJ/mol	Joback Method
hvap	71.33	kJ/mol	Joback Method
log10ws	-5.03		Crippen Method
logp	3.745		Crippen Method
mvol	224.830	ml/mol	McGowan Method
pc	1893.65	kPa	Joback Method
rinpol	2207.00		NIST Webbook
rinpol	2207.00		NIST Webbook
tb	789.15	K	Joback Method
tc	997.56	K	Joback Method
tf	482.01	K	Joback Method
vc	0.884	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	640.79	J/mol×K	789.15	Joback Method
cpg	652.29	J/mol×K	823.89	Joback Method
cpg	662.93	J/mol×K	858.62	Joback Method
cpg	672.77	J/mol×K	893.36	Joback Method
cpg	681.88	J/mol×K	928.09	Joback Method
cpg	690.35	J/mol×K	962.83	Joback Method
cpg	698.24	J/mol×K	997.56	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=U405822&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U405822&amp;Units=SI</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<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>rinpola:</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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