

# Succinic acid, 2-naphthylmethyl 2-fluoro-3-(trifluoromethyl)phenyl ester

Inchi:	InChI=1S/C22H16F4O4/c23-21-17(22(24,25)26)6-3-7-18(21)30-20(28)11-10-19(27)29-1
InchiKey:	ZKZBOIGZEHGIEO-UHFFFAOYSA-N
Formula:	C22H16F4O4
SMILES:	O=C(CCC(=O)Oc1cccc(C(F)(F)F)c1F)OCc1ccc2ccccc2c1
Mol. weight [g/mol]:	420.35

## Physical Properties

Property code	Value	Unit	Source
gf	-807.30	kJ/mol	Joback Method
hf	-1150.48	kJ/mol	Joback Method
hfus	47.15	kJ/mol	Joback Method
hvap	86.49	kJ/mol	Joback Method
log10ws	-7.25		Crippen Method
logp	5.427		Crippen Method
mvol	275.820	ml/mol	McGowan Method
pc	1553.67	kPa	Joback Method
rinpol	2928.00		NIST Webbook
rinpol	2928.00		NIST Webbook
tb	936.47	K	Joback Method
tc	1159.95	K	Joback Method
tf	609.90	K	Joback Method
vc	1.083	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	843.61	J/mol×K	936.47	Joback Method
cpg	854.83	J/mol×K	973.72	Joback Method
cpg	865.09	J/mol×K	1010.96	Joback Method
cpg	874.47	J/mol×K	1048.21	Joback Method
cpg	883.05	J/mol×K	1085.45	Joback Method
cpg	890.94	J/mol×K	1122.70	Joback Method
cpg	898.20	J/mol×K	1159.95	Joback Method

# Sources

<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=U390795&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U390795&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>

# 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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