

# Fumaric acid, monoamide, N,N-dimethyl-, pentafluorobenzyl ester

<b>Inchi:</b>	InChI=1S/C13H10F5NO3/c1-19(2)7(20)3-4-8(21)22-5-6-9(14)11(16)13(18)12(17)10(6)15
<b>InchiKey:</b>	OTWMEKIYKLFHGX-ONEGZZNKSA-N
<b>Formula:</b>	C13H10F5NO3
<b>SMILES:</b>	CN(C)C(=O)C=CC(=O)OCc1c(F)c(F)c(F)c(F)c1F
<b>Mol. weight [g/mol]:</b>	323.22

## Physical Properties

Property code	Value	Unit	Source
gf	-1023.05	kJ/mol	Joback Method
hf	-1285.65	kJ/mol	Joback Method
hfus	44.53	kJ/mol	Joback Method
hvap	63.94	kJ/mol	Joback Method
log10ws	-3.58		Crippen Method
logp	2.070		Crippen Method
mvol	193.810	ml/mol	McGowan Method
pc	1930.44	kPa	Joback Method
rinpol	1981.00		NIST Webbook
rinpol	1981.00		NIST Webbook
tb	691.53	K	Joback Method
tc	873.53	K	Joback Method
tf	477.72	K	Joback Method
vc	0.773	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	513.06	J/mol×K	691.53	Joback Method
cpg	523.76	J/mol×K	721.86	Joback Method
cpg	533.85	J/mol×K	752.20	Joback Method
cpg	543.36	J/mol×K	782.53	Joback Method
cpg	552.30	J/mol×K	812.86	Joback Method
cpg	560.68	J/mol×K	843.19	Joback Method
cpg	568.51	J/mol×K	873.53	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.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>
<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=U357447&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U357447&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>hvp:</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>rinp:</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.cheméo.com/cid/115-877-1/Fumaric-acid-monoamide-N-N-dimethyl-pentafluorobenzyl-ester.pdf>

Generated by Cheméo on 2024-05-03 16:52:44.066926326 +0000 UTC m=+17044412.987503641.

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