

# Benzamide, 2,4,5-trifluoro-3-methoxy-N-(2-ethylhexyl)-

Inchi:	InChI=1S/C16H22F3NO2/c1-4-6-7-10(5-2)9-20-16(21)11-8-12(17)14(19)15(22-3)13(11)1
InchiKey:	XALOYQDUWHNKMB-UHFFFAOYSA-N
Formula:	C16H22F3NO2
SMILES:	CCCCC(CC)CNC(=O)c1cc(F)c(F)c(OC)c1F
Mol. weight [g/mol]:	317.35

## Physical Properties

Property code	Value	Unit	Source
gf	-573.67	kJ/mol	Joback Method
hf	-967.86	kJ/mol	Joback Method
hfus	43.28	kJ/mol	Joback Method
hvap	68.89	kJ/mol	Joback Method
log10ws	-5.62		Crippen Method
logp	4.059		Crippen Method
mcvol	235.270	ml/mol	McGowan Method
pc	1536.66	kPa	Joback Method
rinpola	2037.00		NIST Webbook
rinpola	2037.00		NIST Webbook
tb	735.91	K	Joback Method
tc	920.60	K	Joback Method
tf	458.17	K	Joback Method
vc	0.930	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	679.95	J/molxK	735.91	Joback Method
cpg	694.59	J/molxK	766.69	Joback Method
cpg	708.43	J/molxK	797.47	Joback Method
cpg	721.47	J/molxK	828.25	Joback Method
cpg	733.73	J/molxK	859.04	Joback Method
cpg	745.23	J/molxK	889.82	Joback Method
cpg	755.97	J/molxK	920.60	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=U407643&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U407643&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>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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