

# N,N-Difluorobenzylamine

<b>Inchi:</b>	InChI=1S/C7H7F2N/c8-10(9)6-7-4-2-1-3-5-7/h1-5H,6H2
<b>InchiKey:</b>	QSSYZZLBAAQNKO-UHFFFAOYSA-N
<b>Formula:</b>	C7H7F2N
<b>SMILES:</b>	FN(F)Cc1ccccc1
<b>Mol. weight [g/mol]:</b>	143.13
<b>CAS:</b>	23162-99-4

## Physical Properties

Property code	Value	Unit	Source
chl	-4076.00 ± 3.00	kJ/mol	NIST Webbook
gf	-158.37	kJ/mol	Joback Method
hf	7.00 ± 4.00	kJ/mol	NIST Webbook
hfl	-37.00 ± 3.00	kJ/mol	NIST Webbook
hfus	17.11	kJ/mol	Joback Method
hvap	44.00 ± 1.00	kJ/mol	NIST Webbook
log10ws	-2.61		Crippen Method
logp	2.258		Crippen Method
mcvol	99.250	ml/mol	McGowan Method
pc	3668.65	kPa	Joback Method
tb	397.22	K	Joback Method
tc	583.72	K	Joback Method
tf	228.72	K	Joback Method
vc	0.373	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	181.99	J/mol×K	397.22	Joback Method
cpg	193.54	J/mol×K	428.30	Joback Method
cpg	204.43	J/mol×K	459.39	Joback Method
cpg	214.67	J/mol×K	490.47	Joback Method
cpg	224.30	J/mol×K	521.55	Joback Method
cpg	233.34	J/mol×K	552.64	Joback Method
cpg	241.81	J/mol×K	583.72	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=C23162994&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C23162994&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>chl:</b>	Standard liquid enthalpy of combustion
<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>hfl:</b>	Liquid phase 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>hvapt:</b>	Enthalpy of vaporization at a given temperature
<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>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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