

# N,N-Dibenzoylmethylamine

<b>Other names:</b>	N,N-Dibenzoylmethylamin N-benzoyl-N-methylbenzamide
<b>Inchi:</b>	InChI=1S/C15H13NO2/c1-16(14(17)12-8-4-2-5-9-12)15(18)13-10-6-3-7-11-13/h2-11H,1H
<b>InchiKey:</b>	ALISWIYMUVEKSIG-UHFFFAOYSA-N
<b>Formula:</b>	C15H13NO2
<b>SMILES:</b>	CN(C(=O)c1ccccc1)C(=O)c1ccccc1
<b>Mol. weight [g/mol]:</b>	239.27
<b>CAS:</b>	23825-32-3

## Physical Properties

Property code	Value	Unit	Source
gf	153.18	kJ/mol	Joback Method
hf	-37.50	kJ/mol	Joback Method
hfus	28.91	kJ/mol	Joback Method
hsub	120.10 ± 0.40	kJ/mol	NIST Webbook
hvap	69.07	kJ/mol	Joback Method
log10ws	-3.58		Crippen Method
logp	2.599		Crippen Method
mcvol	187.810	ml/mol	McGowan Method
pc	2853.57	kPa	Joback Method
tb	716.14	K	Joback Method
tc	959.16	K	Joback Method
tf	443.98	K	Joback Method
vc	0.690	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	494.74	J/mol×K	716.14	Joback Method
cpg	509.17	J/mol×K	756.64	Joback Method
cpg	522.31	J/mol×K	797.15	Joback Method
cpg	534.27	J/mol×K	837.65	Joback Method
cpg	545.14	J/mol×K	878.15	Joback Method
cpg	555.01	J/mol×K	918.65	Joback Method

cpg	563.98	J/mol×K	959.16	Joback Method
hsubt	116.80 ± 0.40	kJ/mol	257.50	NIST Webbook

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C23825323&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C23825323&amp;Units=SI</a>
<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>

## 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>hsub:</b>	Enthalpy of sublimation at standard conditions
<b>hsubt:</b>	Enthalpy of sublimation at a given temperature
<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>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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