

# Hydrazinecarboxylic acid, phenylmethyl ester

<b>Other names:</b>	Carbobenzoxyhydrazide Benzyl carbazate ((Benzyloxy)carbonyl)hydrazine Benzyloxycarbonyl hydrazide Carbamic acid, benzyl ester
<b>Inchi:</b>	InChI=1S/C8H10N2O2/c9-10-8(11)12-6-7-4-2-1-3-5-7/h1-5H,6,9H2,(H,10,11)
<b>InchiKey:</b>	RXUBZLMIGSAPEJ-UHFFFAOYSA-N
<b>Formula:</b>	C8H10N2O2
<b>SMILES:</b>	NNC(=O)OCc1ccccc1
<b>Mol. weight [g/mol]:</b>	166.18
<b>CAS:</b>	5331-43-1

## Physical Properties

Property code	Value	Unit	Source
gf	50.81	kJ/mol	Joback Method
hf	-129.46	kJ/mol	Joback Method
hfus	23.60	kJ/mol	Joback Method
hvap	61.91	kJ/mol	Joback Method
log10ws	-2.22		Crippen Method
logp	0.787		Crippen Method
mcvol	127.220	ml/mol	McGowan Method
pc	4222.04	kPa	Joback Method
tb	608.11	K	Joback Method
tc	836.48	K	Joback Method
tf	414.42	K	Joback Method
vc	0.464	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	310.24	J/mol×K	608.11	Joback Method
cpg	321.78	J/mol×K	646.17	Joback Method
cpg	332.52	J/mol×K	684.23	Joback Method
cpg	342.49	J/mol×K	722.30	Joback Method

cpg	351.71	J/mol×K	760.36	Joback Method
cpg	360.20	J/mol×K	798.42	Joback Method
cpg	367.99	J/mol×K	836.48	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C5331431&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C5331431&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>

## 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>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.chemeo.com/cid/15-372-2/Hydrazinecarboxylic-acid-phenylmethyl-ester.pdf>

Generated by Cheméo on 2024-05-03 05:14:42.151913783 +0000 UTC m=+17002531.072491098.

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