

# Methyl 3,4-diaminobenzoate

<b>Inchi:</b>	InChI=1S/C8H10N2O2/c1-12-8(11)5-2-3-6(9)7(10)4-5/h2-4H,9-10H2,1H3
<b>InchiKey:</b>	IOPLHGOSNCJOOO-UHFFFAOYSA-N
<b>Formula:</b>	C8H10N2O2
<b>SMILES:</b>	COC(=O)c1ccc(N)c(N)c1
<b>Mol. weight [g/mol]:</b>	166.18
<b>CAS:</b>	36692-49-6

## Physical Properties

Property code	Value	Unit	Source
gf	8.61	kJ/mol	Joback Method
hf	-172.08	kJ/mol	Joback Method
hfus	22.92	kJ/mol	Joback Method
hvap	67.44	kJ/mol	Joback Method
log10ws	-0.98		Crippen Method
logp	0.638		Crippen Method
mvol	127.220	ml/mol	McGowan Method
pc	4299.92	kPa	Joback Method
tb	640.43	K	Joback Method
tc	879.35	K	Joback Method
tf	470.06	K	Joback Method
vc	0.458	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	315.21	J/mol×K	640.43	Joback Method
cpg	326.00	J/mol×K	680.25	Joback Method
cpg	336.07	J/mol×K	720.07	Joback Method
cpg	345.42	J/mol×K	759.89	Joback Method
cpg	354.05	J/mol×K	799.71	Joback Method
cpg	361.98	J/mol×K	839.53	Joback Method
cpg	369.21	J/mol×K	879.35	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=C36692496&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C36692496&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

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