

# 2,5-dimethoxyaniline

Inchi:	InChI=1S/C8H11NO2/c1-10-6-3-4-8(11-2)7(9)5-6/h3-5H,9H2,1-2H3
InchiKey:	NAZDVUBIEPVUKE-UHFFFAOYSA-N
Formula:	C8H11NO2
SMILES:	COc1ccc(OC)c(N)c1
Mol. weight [g/mol]:	153.18

## Physical Properties

Property code	Value	Unit	Source
gf	-33.92	kJ/mol	Joback Method
hf	-225.51	kJ/mol	Joback Method
hfus	23.22	kJ/mol	Solubility of 4-Chloro-2,5-dimethoxynitrobenzene, 4-Chloro-2,5-dimethoxyaniline, and 2,5-Dimethoxyaniline in Binary and Pure Solvents: Determination and Modeling
hvap	52.46	kJ/mol	Joback Method
log10ws	-1.34		Crippen Method
logp	1.286		Crippen Method
mcvol	121.540	ml/mol	McGowan Method
pc	3620.24	kPa	Joback Method
tb	536.45	K	Joback Method
tc	757.02	K	Joback Method
tf	359.10	K	Joback Method
tt	352.56	K	Solubility of 4-Chloro-2,5-dimethoxynitrobenzene, 4-Chloro-2,5-dimethoxyaniline, and 2,5-Dimethoxyaniline in Binary and Pure Solvents: Determination and Modeling
vc	0.441	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	273.40	J/mol×K	536.45	Joback Method

cpg	285.22	J/mol×K	573.21	Joback Method
cpg	296.50	J/mol×K	609.97	Joback Method
cpg	307.24	J/mol×K	646.74	Joback Method
cpg	317.42	J/mol×K	683.50	Joback Method
cpg	327.03	J/mol×K	720.26	Joback Method
cpg	336.07	J/mol×K	757.02	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>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>Solubility of 4-Chloro-2,5-dimethoxynitrobenzene, 4-Chloro-2,5-dimethoxyaniline, and 2,5-Dimethoxyaniline in Binary and Pure Solvents: Determination and Modeling</b>	<a href="https://www.doi.org/10.1021/acs.jced.9b00011">https://www.doi.org/10.1021/acs.jced.9b00011</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>tt:</b>	Triple Point Temperature
<b>vc:</b>	Critical Volume

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