

# Benzeneethanamine, 2,5-dimethoxy-«alpha»,4-dimethyl-

Other names:

Phenethylamine, 2,5-dimethoxy-«alpha»,4-dimethyl-  
DOM  
STP  
2,5-Dimethoxy-«alpha»,4-dimethylphenylethylamine  
2,5-Dimethoxy-4-methylamphetamine  
2,5-Dimethoxy-4-methylphenylisopropylamine  
2,5-Dimethoxymethylamphetamine  
2',5'-Dimethoxy-4'-methylamphetamine  
4-Methyl-2,5-dimethoxyamphetamine  
(.+/-.)-1-(2,5-Dimethoxy-4-methylphenyl)-2-aminopropane  
(.+/-.)-1-(4-Methyl-2,5-dimethoxyphenyl)-2-aminopropane  
(.+/-.)-2,5-Dimethoxy-4-methylamphetamine  
(.+/-.)-DOM  
(RS)-DOM  
dl-2,5-Dimethoxy-4-methylamphetamine  
dl-4-Methyl-2,5-dimethoxyamphetamine  
STP (hallucinogen)

Inchi:	InChI=1S/C12H19NO2/c1-8-5-12(15-4)10(6-9(2)13)7-11(8)14-3/h5,7,9H,6,13H2,1-4H3
InchiKey:	NTJQREUGJKIARY-UHFFFAOYSA-N
Formula:	C12H19NO2
SMILES:	COc1cc(CC(C)N)c(OC)cc1C
Mol. weight [g/mol]:	209.28
CAS:	26011-50-7

## Physical Properties

Property code	Value	Unit	Source
gf	-12.31	kJ/mol	Joback Method
hf	-324.82	kJ/mol	Joback Method
hfus	23.76	kJ/mol	Joback Method
hvap	61.64	kJ/mol	Joback Method
ie	7.62 ± 0.06	eV	NIST Webbook
ie	7.62	eV	NIST Webbook
log10ws	-2.95		Crippen Method
logp	1.902		Crippen Method
mcvol	177.900	ml/mol	McGowan Method
pc	2372.59	kPa	Joback Method
tb	632.51	K	Joback Method

tc	843.83	K	Joback Method
tf	401.70	K	Joback Method
vc	0.658	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	462.71	J/mol×K	632.51	Joback Method
cpg	478.13	J/mol×K	667.73	Joback Method
cpg	492.76	J/mol×K	702.95	Joback Method
cpg	506.60	J/mol×K	738.17	Joback Method
cpg	519.65	J/mol×K	773.39	Joback Method
cpg	531.90	J/mol×K	808.61	Joback Method
cpg	543.34	J/mol×K	843.83	Joback Method

## Sources

- McGowan Method:** <http://link.springer.com/article/10.1007/BF02311772>
- NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=C26011507&Units=SI>
- Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci990307i>
- Crippen Method:** [https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)
- Joback Method:** [https://en.wikipedia.org/wiki/Joback\\_method](https://en.wikipedia.org/wiki/Joback_method)

## Legend

- cpg:** Ideal gas heat capacity
- gf:** Standard Gibbs free energy of formation
- hf:** Enthalpy of formation at standard conditions
- hfus:** Enthalpy of fusion at standard conditions
- hvap:** Enthalpy of vaporization at standard conditions
- ie:** Ionization energy
- log10ws:** Log10 of Water solubility in mol/l
- logp:** Octanol/Water partition coefficient
- mcvol:** McGowan's characteristic volume
- pc:** 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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