

Benzene, 1-methoxy-4-(2-phenylethyl)-

Other names:	Anisole, p-phenethyl- 1-(4-Methoxyphenyl)-2-phenylethane
Inchi:	InChI=1S/C15H16O/c1-16-15-11-9-14(10-12-15)8-7-13-5-3-2-4-6-13/h2-6,9-12H,7-8H2,1
InchiKey:	AFPZIAQJQAQDAQ-UHFFFAOYSA-N
Formula:	C15H16O
SMILES:	<chem>COc1ccc(CCc2ccccc2)cc1</chem>
Mol. weight [g/mol]:	212.29
CAS:	14310-21-5

Physical Properties

Property code	Value	Unit	Source
gf	185.61	kJ/mol	Joback Method
hf	-23.56	kJ/mol	Joback Method
hfus	23.49	kJ/mol	Joback Method
hvap	56.61	kJ/mol	Joback Method
ie	8.00 ± 10.00	eV	NIST Webbook
log10ws	-4.01		Crippen Method
logp	3.480		Crippen Method
mvol	180.560	ml/mol	McGowan Method
pc	2431.44	kPa	Joback Method
tb	623.36	K	Joback Method
tc	855.63	K	Joback Method
tf	346.40	K	Joback Method
vc	0.677	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	447.73	J/mol×K	623.36	Joback Method
cpg	465.17	J/mol×K	662.07	Joback Method
cpg	481.41	J/mol×K	700.78	Joback Method
cpg	496.49	J/mol×K	739.50	Joback Method
cpg	510.46	J/mol×K	778.21	Joback Method
cpg	523.38	J/mol×K	816.92	Joback Method

cpg	535.29	J/mol×K	855.63	Joback Method
dvisc	0.0014186	Paxs	346.40	Joback Method
dvisc	0.0007544	Paxs	392.56	Joback Method
dvisc	0.0004582	Paxs	438.72	Joback Method
dvisc	0.0003060	Paxs	484.88	Joback Method
dvisc	0.0002192	Paxs	531.04	Joback Method
dvisc	0.0001656	Paxs	577.20	Joback Method
dvisc	0.0001305	Paxs	623.36	Joback Method

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C14310215&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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