

Benzeneacetonitrile, 4-methoxy-

Other names:	Acetonitrile, (p-methoxyphenyl)- p-Methoxybenzeneacetonitrile p-Methoxybenzyl cyanide p-Methoxyphenylacetonitrile 4-Methoxyphenylacetonitrile 4-Methoxyphenylacetic acid nitrile p-Anisylacetonitrile Anisylacetonitrile NSC 96
Inchi:	InChI=1S/C9H9NO/c1-11-9-4-2-8(3-5-9)6-7-10/h2-5H,6H2,1H3
InchiKey:	PACGLQCRGWFBJH-UHFFFAOYSA-N
Formula:	C9H9NO
SMILES:	COc1ccc(CC#N)cc1
Mol. weight [g/mol]:	147.17
CAS:	104-47-2

Physical Properties

Property code	Value	Unit	Source
gf	155.86	kJ/mol	Joback Method
hf	28.63	kJ/mol	Joback Method
hfus	15.41	kJ/mol	Joback Method
hvap	51.45	kJ/mol	Joback Method
ie	8.77 ± 0.05	eV	NIST Webbook
log10ws	-2.26		Crippen Method
logp	1.761		Crippen Method
mcvol	121.160	ml/mol	McGowan Method
pc	3059.17	kPa	Joback Method
rinpol	1370.00		NIST Webbook
rinpol	1336.00		NIST Webbook
ripol	2305.00		NIST Webbook
tb	559.70	K	NIST Webbook
tc	787.14	K	Joback Method
tf	317.35	K	Joback Method
vc	0.475	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	265.49	J/mol×K	561.48	Joback Method
cpg	276.53	J/mol×K	599.09	Joback Method
cpg	286.94	J/mol×K	636.70	Joback Method
cpg	296.73	J/mol×K	674.31	Joback Method
cpg	305.90	J/mol×K	711.92	Joback Method
cpg	314.47	J/mol×K	749.53	Joback Method
cpg	322.45	J/mol×K	787.14	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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=C104472&Units=SI

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
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point

vc: Critical Volume

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