Benzene, 1-methoxy-4-propyl-

Other names:	Anisole, p-propyl-
	p-Propylanisole
	Dihydroanethole
	4-n-Propylanisole
	4-Propylanisole
	p-n-Propylanisole
	1-Methoxy-4-propylbenzene
	p-Propylmethoxybenzene
	Methyl p-propylphenyl ether
	p-Propylphenol methyl ether
	NSC 37996
	propylanisol
Inchi:	InChI=1S/C10H14O/c1-3-4-9-5-7-10(11-2)8-6-9/h5-8H,3-4H2,1-2H3
InchiKey:	KBHWKXNXTURZCD-UHFFFAOYSA-N
Formula:	C10H14O
SMILES:	CCCc1ccc(OC)cc1
Mol. weight [g/mol]:	150.22
CAS:	104-45-0

Physical Properties

Property code	Value	Unit	Source
gf	31.10	kJ/mol	Joback Method
hf	-156.89	kJ/mol	Joback Method
hfus	16.50	kJ/mol	Joback Method
hvap	43.20	kJ/mol	Joback Method
log10ws	-2.81		Crippen Method
logp	2.648		Crippen Method
mcvol	133.870	ml/mol	McGowan Method
pc	2832.35	kPa	Joback Method
ripol	1600.00		NIST Webbook
ripol	1606.00		NIST Webbook
ripol	1606.00		NIST Webbook
tb	488.50 ± 0.50	K	NIST Webbook
tc	686.66	K	Joback Method
tf	263.63	K	Joback Method
vc	0.505	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	281.65	J/mol×K	482.28	Joback Method
cpg	346.49	J/mol×K	652.59	Joback Method
cpg	334.82	J/mol×K	618.53	Joback Method
cpg	322.51	J/mol×K	584.47	Joback Method
cpg	309.56	J/mol×K	550.41	Joback Method
cpg	295.94	J/mol×K	516.34	Joback Method
cpg	357.54	J/mol×K	686.66	Joback Method
dvisc	0.0001871	Pa×s	482.28	Joback Method
dvisc	0.0002355	Pa×s	445.84	Joback Method
dvisc	0.0003087	Pa×s	409.40	Joback Method
dvisc	0.0004268	Pa×s	372.95	Joback Method
dvisc	0.0006327	Pa×s	336.51	Joback Method
dvisc	0.0010323	Pa×s	300.07	Joback Method
dvisc	0.0019281	Pa×s	263.63	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=C104450&Units=SI

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

log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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