

1-Pentanol, 5-methoxy-

Other names:	5-Methoxy-1-pentanol 5-Methoxypentanol
Inchi:	InChI=1S/C6H14O2/c1-8-6-4-2-3-5-7/h7H,2-6H2,1H3
InchiKey:	OMNKOGRWWOOFU-UHFFFAOYSA-N
Formula:	C6H14O2
SMILES:	COCCCCCO
Mol. weight [g/mol]:	118.17
CAS:	4799-62-6

Physical Properties

Property code	Value	Unit	Source
gf	-242.18	kJ/mol	Joback Method
hf	-451.62	kJ/mol	Joback Method
hfus	16.57	kJ/mol	Joback Method
hvap	48.04	kJ/mol	Joback Method
log10ws	-0.68		Crippen Method
logp	0.795		Crippen Method
mcpvol	107.140	ml/mol	McGowan Method
pc	3384.14	kPa	Joback Method
ripol	1564.00		NIST Webbook
ripol	1564.00		NIST Webbook
tb	451.28	K	Joback Method
tc	612.56	K	Joback Method
tf	240.43	K	Joback Method
vc	0.408	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	230.19	J/mol×K	451.28	Joback Method
cpg	274.10	J/mol×K	585.68	Joback Method
cpg	265.89	J/mol×K	558.80	Joback Method
cpg	257.39	J/mol×K	531.92	Joback Method
cpg	248.61	J/mol×K	505.04	Joback Method

cpg	239.54	J/mol×K	478.16	Joback Method
cpg	282.03	J/mol×K	612.56	Joback Method
dvisc	0.0001905	Pa×s	451.28	Joback Method
dvisc	0.0003167	Pa×s	416.14	Joback Method
dvisc	0.0005784	Pa×s	381.00	Joback Method
dvisc	0.0011937	Pa×s	345.86	Joback Method
dvisc	0.0029025	Pa×s	310.71	Joback Method
dvisc	0.0088527	Pa×s	275.57	Joback Method
dvisc	0.0374067	Pa×s	240.43	Joback Method

Sources

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=C4799626&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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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