(3-Methylphenyl) methanol, ethyl ether

Inchi: InChI=1S/C10H14O/c1-3-11-8-10-6-4-5-9(2)7-10/h4-7H,3,8H2,1-2H3
InchiKey: RZUNTOOULBXNEN-UHFFFAOYSA-N
Formula: C10H14O
SMILES: CCOCc1cccc(C)c1
Mol. weight [g/mol]: 150.22

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	-2.75		Crippen Method
logp	2.532		Crippen Method
mcvol	133.870	ml/mol	McGowan Method
pc	2832.35	kPa	Joback Method
rinpol	1165.00		NIST Webbook
rinpol	1165.00		NIST Webbook
tb	482.28	K	Joback Method
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:	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=U374581&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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