Benzenemethanol, 2,4,5-trimethyl-

Other names:	Benzyl alcohol, 2,4,5-trimethyl-
	«alpha»-Durenol
	Pseudocumene-5-methylol
	2,4,5-Trimethylbenzyl alcohol
	2,4,5-Trimethyl-benzenemethanol
Inchi:	InChI=1S/C10H14O/c1-7-4-9(3)10(6-11)5-8(7)2/h4-5,11H,6H2,1-3H3
InchiKey:	GHDQBJLOOLNHCJ-UHFFFAOYSA-N
Formula:	C10H14O
SMILES:	Cc1cc(C)c(CO)cc1C
Mol. weight [g/mol]:	150.22
CAS:	4393-05-9

Physical Properties

Property code	Value	Unit	Source
gf	-19.98	kJ/mol	Joback Method
hf	-199.84	kJ/mol	Joback Method
hfus	18.62	kJ/mol	Joback Method
hvap	58.80	kJ/mol	Joback Method
log10ws	-3.04		Crippen Method
logp	2.104		Crippen Method
mcvol	133.870	ml/mol	McGowan Method
pc	3086.42	kPa	Joback Method
tb	562.00	K	Joback Method
tc	757.46	K	Joback Method
tf	327.26	K	Joback Method
vc	0.506	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	310.51	J/mol×K	562.00	Joback Method
cpg	322.19	J/mol×K	594.58	Joback Method
cpg	333.33	J/mol×K	627.15	Joback Method
cpg	343.94	J/mol×K	659.73	Joback Method

cpg	354.02	J/mol×K	692.31	Joback Method
cpg	363.60	J/mol×K	724.89	Joback Method
cpg	372.69	J/mol×K	757.46	Joback Method
dvisc	0.0035304	Pa×s	327.26	Joback Method
dvisc	0.0013925	Pa×s	366.38	Joback Method
dvisc	0.0006572	Pa×s	405.51	Joback Method
dvisc	0.0003540	Pa×s	444.63	Joback Method
dvisc	0.0002108	Pa×s	483.75	Joback Method
dvisc	0.0001356	Pa×s	522.88	Joback Method
dvisc	0.0000928	Pa×s	562.00	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=C4393059&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
tb: Normal Boiling Point Temperature
tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume