2,5-Dimethylphenyl methyl carbinol

Other names: «alpha»,2,5-Trimethylbenzyl alcohol
Benzenemethanol, «alpha»,2,5-trimethyl-
1-(2,5-Dimethylphenyl)ethanol
benzyl alcohol, «alpha»,2,5-trimethyl-
Inchi: InChI=1S/C10H14O/c1-7-4-5-8(2)10(6-7)9(3)11/h4-6,9,11H,1-3H3
InchiKey: VHLZFCOCNJEXTQ-UHFFFAOYSA-N
Formula: C10H14O
SMILES: Cc1ccc(C)c(C(C)O)c1
Mol. weight [g/mol]: 150.22
CAS: 32917-52-5

Physical Properties

Property code	Value	Unit	Source
gf	-12.79	kJ/mol	Joback Method
hf	-193.65	kJ/mol	Joback Method
hfus	15.48	kJ/mol	Joback Method
hvap	57.75	kJ/mol	Joback Method
log10ws	-2.95		Crippen Method
logp	2.357		Crippen Method
mcvol	133.870	ml/mol	McGowan Method
pc	3166.83	kPa	Joback Method
tb	556.58	K	Joback Method
tc	755.02	K	Joback Method
tf	299.74	K	Joback Method
vc	0.500	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	311.37	J/mol×K	556.58	Joback Method
cpg	323.63	J/mol×K	589.65	Joback Method
cpg	335.25	J/mol×K	622.73	Joback Method
cpg	346.27	J/mol×K	655.80	Joback Method
cpg	356.70	J/mol×K	688.88	Joback Method

cpg	366.57	J/mol×K	721.95	Joback Method
cpg	375.88	J/mol×K	755.02	Joback Method
dvisc	0.0084193	Pa×s	299.74	Joback Method
dvisc	0.0024711	Pa×s	342.55	Joback Method
dvisc	0.0009523	Pa×s	385.35	Joback Method
dvisc	0.0004441	Pa×s	428.16	Joback Method
dvisc	0.0002379	Pa×s	470.97	Joback Method
dvisc	0.0001414	Pa×s	513.77	Joback Method
dvisc	0.0000911	Pa×s	556.58	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=C32917525&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
tb: Normal Boiling Point Temperature
tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume

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