

Benzeneethanol, «alpha»,«beta»-dimethyl-

Other names:	3-Phenyl-2-butanol Phenethyl alcohol, «alpha»,«beta»-dimethyl-
Inchi:	InChI=1S/C10H14O/c1-8(9(2)11)10-6-4-3-5-7-10/h3-9,11H,1-2H3
InchiKey:	KDNYCTPSPZHJQF-UHFFFAOYSA-N
Formula:	C10H14O
SMILES:	CC(O)C(C)c1ccccc1
Mol. weight [g/mol]:	150.22
CAS:	52089-32-4

Physical Properties

Property code	Value	Unit	Source
gf	4.03	kJ/mol	Joback Method
hf	-175.99	kJ/mol	Joback Method
hfus	12.74	kJ/mol	Joback Method
hvap	56.03	kJ/mol	Joback Method
log10ws	-2.45		Crippen Method
logp	2.171		Crippen Method
mvol	133.870	ml/mol	McGowan Method
pc	3306.75	kPa	Joback Method
ripol	1964.00		NIST Webbook
ripol	1964.00		NIST Webbook
tb	546.18	K	Joback Method
tc	746.67	K	Joback Method
tf	259.70	K	Joback Method
vc	0.494	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	312.39	J/mol×K	546.18	Joback Method
cpg	325.55	J/mol×K	579.60	Joback Method
cpg	337.94	J/mol×K	613.01	Joback Method
cpg	349.61	J/mol×K	646.43	Joback Method
cpg	360.57	J/mol×K	679.84	Joback Method

cpg	370.87	J/molxK	713.26	Joback Method
cpg	380.53	J/molxK	746.67	Joback Method
dvisc	0.0475299	Paxs	259.70	Joback Method
dvisc	0.0075316	Paxs	307.45	Joback Method
dvisc	0.0019584	Paxs	355.19	Joback Method
dvisc	0.0007007	Paxs	402.94	Joback Method
dvisc	0.0003117	Paxs	450.69	Joback Method
dvisc	0.0001620	Paxs	498.43	Joback Method
dvisc	0.0000944	Paxs	546.18	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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=C52089324&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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