p-Cymen-7-ol

Other names:	Cumic alcohol Benzenemethanol, 4-(1-methylethyl)- p-Isopropylbenzyl alcohol Cuminic alcohol Cuminol Cuminyl alcohol Cumyl alcohol Benzyl alcohol, p-isopropyl- Cumin alcohol 4-(1-methylethyl)benzenemethanol para-Cymen-7-ol p-cymene-7-ol 4-Isopropylbenzyl alcohol NSC 15672 p-Cumin-7-ol cuminol (p-cymen-7-ol)
Inchi:	InChI=1S/C10H14O/c1-8(2)10-5-3-9(7-11)4-6-10/h3-6,8,11H,7H2,1-2H3
InchiKey:	OIGWAXDAPKFNCQ-UHFFFAOYSA-N
Formula:	C10H14O
SMILES:	CC(C)c1ccc(CO)cc1
Mol. weight [g/mol]:	150.22
CAS:	536-60-7

Physical Properties

Property code	Value	Unit	Source
gf	-3.16	kJ/mol	Joback Method
hf	-182.18	kJ/mol	Joback Method
hfus	15.87	kJ/mol	Joback Method
hvap	57.08	kJ/mol	Joback Method
log10ws	-2.80		Crippen Method
logp	2.302		Crippen Method
mcvol	133.870	ml/mol	McGowan Method
pc	3220.98	kPa	Joback Method
rinpol	1275.00		NIST Webbook
rinpol	1308.00		NIST Webbook
rinpol	1287.00		NIST Webbook
rinpol	1289.00		NIST Webbook

rinpol	1287.00	NIST Webbook
rinpol	1290.00	NIST Webbook
rinpol	1271.00	NIST Webbook
rinpol	1287.00	NIST Webbook
rinpol	1266.00	NIST Webbook
rinpol	1260.00	NIST Webbook
rinpol	1265.00	NIST Webbook
rinpol	1295.00	NIST Webbook
rinpol	1291.00	NIST Webbook
rinpol	1287.00	NIST Webbook
rinpol	1287.00	NIST Webbook
rinpol	1288.00	NIST Webbook
rinpol	1278.00	NIST Webbook
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ripol	2113.00	NIST Webbook
ripol	2110.00	NIST Webbook
ripol	2104.00	NIST Webbook
ripol	2099.00	NIST Webbook
ripol	2086.00	NIST Webbook
ripol	2113.00	NIST Webbook
ripol	2086.00	NIST Webbook

ripol	2113.00		NIST Webbook
tb	521.80 ± 1.00	K	NIST Webbook
tb	505.15 ± 1.50	K	NIST Webbook
tc	749.01	K	Joback Method
tf	287.22	K	Joback Method
vc	0.500	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	377.34	J/mol×K	749.01	Joback Method
cpg	367.93	J/mol×K	716.11	Joback Method
cpg	357.94	J/mol×K	683.21	Joback Method
cpg	347.36	J/mol×K	650.31	Joback Method
cpg	336.15	J/mol×K	617.40	Joback Method
cpg	324.30	J/mol×K	584.50	Joback Method
cpg	311.76	J/mol×K	551.60	Joback Method
dvisc	0.0140498	Pa×s	287.22	Joback Method
dvisc	0.0000954	Pa×s	551.60	Joback Method
dvisc	0.0001528	Pa×s	507.54	Joback Method
dvisc	0.0002676	Pa×s	463.47	Joback Method
dvisc	0.0005272	Pa×s	419.41	Joback Method
dvisc	0.0012179	Pa×s	375.35	Joback Method
dvisc	0.0035157	Pa×s	331.28	Joback Method
hvapt	59.70	kJ/mol	433.50	NIST Webbook

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	408.70	K	3.50	NIST Webbook

Sources

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

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=C536607&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
hvapt:	Enthalpy of vaporization at a given temperature
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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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