

1-PHENYLCYCLOPENTANOL-1

Other names:	Cyclopentanol, 1-phenyl- 1-Phenylcyclopentanol Benzene, cyclopent-1-yl-1-ol-
Inchi:	InChI=1S/C11H14O/c12-11(8-4-5-9-11)10-6-2-1-3-7-10/h1-3,6-7,12H,4-5,8-9H2
InchiKey:	ITHZGJVAQFFNCZ-UHFFFAOYSA-N
Formula:	C11H14O
SMILES:	OC1(c2ccccc2)CCCC1
Mol. weight [g/mol]:	162.23

Physical Properties

Property code	Value	Unit	Source
hf	-126.32	kJ/mol	Cheméo Relay (1.0)
hfus	10.01	kJ/mol	Joback Method
ie	8.00	eV	NIST Webbook
logp	2.448		Crippen Method
mcvol	137.100	ml/mol	McGowan Method
tb	521.23	K	Cheméo Relay (1.0)
tf	334.91	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	344.09	J/mol×K	585.46	Joback Method
cpg	359.18	J/mol×K	623.15	Joback Method
cpg	373.22	J/mol×K	660.83	Joback Method
cpg	386.34	J/mol×K	698.52	Joback Method
cpg	398.71	J/mol×K	736.20	Joback Method
cpg	410.49	J/mol×K	773.89	Joback Method
cpg	421.84	J/mol×K	811.58	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	405.70	K	2.40	NIST Webbook

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C10487964&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

cpg:	Ideal gas heat capacity
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
ie:	Ionization energy
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
tb:	Normal Boiling Point Temperature
tbrp:	Boiling point at reduced pressure
tf:	Normal melting (fusion) point

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