2-Benzyl-4,4-6-trimethyl-5,6-dihydro-1,3-oxazine

Other names: 5,6-Dihydro-2-benzyl-4,4,6-trimethyl-(4H)-1,3-oxazine
4H-1,3-Oxazine, 5,6-dihydro-4,4,6-trimethyl-2-(phenylmethyl)-
2-benzyl-5,6-dihydro-4,4,6-trimethyl-4H-1,3-oxazine
Inchi: InChI=1S/C14H19NO/c1-11-10-14(2,3)15-13(16-11)9-12-7-5-4-6-8-12/h4-8,11H,9-10H2,
InchiKey: KDQDSZHGNOYQGK-UHFFFAOYSA-N
Formula: C14H19NO
SMILES: CC1CC(C)(C)N=C(Cc2ccccc2)O1
Mol. weight [g/mol]: 217.31

Physical Properties

Property code	Value	Unit	Source
hfus	26.62	kJ/mol	Joback Method
logp	3.215		Crippen Method
mcvol	185.050	ml/mol	McGowan Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	515.53	J/mol×K	646.31	Joback Method
cpg	536.47	J/mol×K	687.67	Joback Method
cpg	556.05	J/mol×K	729.03	Joback Method
cpg	574.43	J/mol×K	770.39	Joback Method
cpg	591.78	J/mol×K	811.75	Joback Method
cpg	608.25	J/mol×K	853.11	Joback Method
cpg	623.99	J/mol×K	894.48	Joback Method

Sources

Cheméo Relay (1.0):
Cheméo Relay (1.0, beta):
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C26939220&Units=SI

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
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

Legend

cpg:	Ideal gas heat capacity
hfus:	Enthalpy of fusion at standard conditions
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume

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