

Tebutam

Other names:

Propanamide, 2,2-dimethyl-N-(1-methylethyl)-N-(phenylmethyl)-
Propionamide, N-benzyl-2,2-dimethyl-N-isopropyl-
N-Benzyl-N-isopropyltrimethylacetamide
Butam
Comodor
GCP-5544
S-15544
Tebutame
2,2-Dimethyl-N-(1-methylethyl)-N-(phenylmethyl)propanamide
N-Benzyl-N-isopropylpivalamide
N-benzyl-N-isopropyl-2,2-dimethylpropionamide

Inchi:

InChI=1S/C15H23NO/c1-12(2)16(14(17)15(3,4)5)11-13-9-7-6-8-10-13/h6-10,12H,11H2,1

InchiKey:

RJKCKKDSSTRYCB-UHFFFAOYSA-N

Formula:

C15H23NO

SMILES:

CC(C)N(Cc1ccccc1)C(=O)C(C)(C)C

Mol. weight [g/mol]:

233.35

CAS:

35256-85-0

Physical Properties

Property code	Value	Unit	Source
gf	170.09	kJ/mol	Joback Method
hf	-175.48	kJ/mol	Joback Method
hfus	22.33	kJ/mol	Joback Method
hvap	58.36	kJ/mol	Joback Method
log10ws	-3.91		Crippen Method
logp	3.470		Crippen Method
mcvol	210.000	ml/mol	McGowan Method
pc	1994.77	kPa	Joback Method
tb	631.92	K	Joback Method
tc	843.34	K	Joback Method
tf	355.05	K	Joback Method
vc	0.774	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	560.42	J/mol×K	631.92	Joback Method
cpg	579.06	J/mol×K	667.16	Joback Method
cpg	596.44	J/mol×K	702.39	Joback Method
cpg	612.64	J/mol×K	737.63	Joback Method
cpg	627.74	J/mol×K	772.86	Joback Method
cpg	641.81	J/mol×K	808.10	Joback Method
cpg	654.92	J/mol×K	843.34	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=C35256850&Units=SI

Legend

cpg:	Ideal gas heat capacity
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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