

Benzanilide, n,4-di-tert-butyl-

Inchi:	InChI=1S/C21H27NO/c1-20(2,3)17-12-14-18(15-13-17)22(21(4,5)6)19(23)16-10-8-7-9-1
InchiKey:	UPVMUZDIHKYDAL-UHFFFAOYSA-N
Formula:	C21H27NO
SMILES:	CC(C)(C)c1ccc(N(C(=O)c2ccccc2)C(C)(C)C)cc1
Mol. weight [g/mol]:	309.45

Physical Properties

Property code	Value	Unit	Source
gf	328.67	kJ/mol	Joback Method
hf	-77.73	kJ/mol	Joback Method
hfus	27.63	kJ/mol	Joback Method
hvap	73.75	kJ/mol	Joback Method
log10ws	-6.03		Crippen Method
logp	5.429		Crippen Method
mcvol	270.780	ml/mol	McGowan Method
pc	1615.47	kPa	Joback Method
tb	798.07	K	Joback Method
tc	1034.47	K	Joback Method
tf	479.03	K	Joback Method
vc	0.998	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	811.16	J/mol×K	798.07	Joback Method
cpg	829.61	J/mol×K	837.47	Joback Method
cpg	846.66	J/mol×K	876.87	Joback Method
cpg	862.46	J/mol×K	916.27	Joback Method
cpg	877.18	J/mol×K	955.67	Joback Method
cpg	890.96	J/mol×K	995.07	Joback Method
cpg	903.98	J/mol×K	1034.47	Joback Method

Sources

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=B6009282&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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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