Benzamide, N,N-diethyl-4-methyl-

Other names:	p-DETA
	p-Toluamide, N,N-diethyl-
	N,N-Diethyl-p-toluamide
	N,N-Diethyl-4-toluamide
Inchi:	InChI=1S/C12H17NO/c1-4-13(5-2)12(14)11-8-6-10(3)7-9-11/h6-9H,4-5H2,1-3H3
InchiKey:	PUZORFQMRDHKBT-UHFFFAOYSA-N
Formula:	C12H17NO
SMILES:	CCN(CC)C(=O)c1ccc(C)cc1
Mol. weight [g/mol]:	191.27
CAS:	2728-05-4

Physical Properties

Property code	Value	Unit	Source
gf	134.80	kJ/mol	Joback Method
hf	-111.00	kJ/mol	Joback Method
hfus	25.11	kJ/mol	Joback Method
hvap	54.03	kJ/mol	Joback Method
log10ws	-2.93		Crippen Method
logp	2.477		Crippen Method
mcvol	167.730	ml/mol	McGowan Method
pc	2517.59	kPa	Joback Method
tb	571.93	K	Joback Method
tc	778.19	K	Joback Method
tf	346.34	K	Joback Method
vc	0.624	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	404.24	J/mol×K	571.93	Joback Method
cpg	420.02	J/mol×K	606.31	Joback Method
cpg	434.87	J/mol×K	640.68	Joback Method
cpg	448.82	J/mol×K	675.06	Joback Method
cpg	461.92	J/mol×K	709.43	Joback Method

cpg	474.20	J/mol×K	743.81	Joback Method
cpg	485.70	J/mol×K	778.19	Joback Method

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=C2728054&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