1-Formyl-2-p-tolylhydrazine

Inchi: InChI=1S/C8H10N2O/c1-7-2-4-8(5-3-7)10-9-6-11/h2-6,10H,1H3,(H,9,11)
InchiKey: DDPJROKUKMXGPW-UHFFFAOYSA-N
Formula: C8H10N2O
SMILES: Cc1ccc(NNC=O)cc1
Mol. weight [g/mol]: 150.18

Physical Properties

Property code	Value	Unit	Source
hfus	22.62	kJ/mol	Joback Method
ie	8.03	eV	Cheméo Relay (1.0)
logp	1.068		Crippen Method
mcvol	121.350	ml/mol	McGowan Method
tb	570.14	K	Cheméo Relay (1.0)
tc	810.49	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	279.42	J/mol×K	563.10	Joback Method
cpg	290.91	J/mol×K	599.48	Joback Method
cpg	301.65	J/mol×K	635.86	Joback Method
cpg	311.69	J/mol×K	672.24	Joback Method
cpg	321.05	J/mol×K	708.62	Joback Method
cpg	329.76	J/mol×K	745.00	Joback Method
cpg	337.84	J/mol×K	781.38	Joback Method

Sources

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
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C38577241&Units=SI

Legend

cpg:	Ideal gas heat capacity
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
tc:	Critical Temperature