N,n-diphenyl acrylamide

Inchi: InChI=1S/C15H13NO/c1-2-15(17)16(13-9-5-3-6-10-13)14-11-7-4-8-12-14/h2-12H,1H2
InchiKey: PHUYTHHZSUIMIX-UHFFFAOYSA-N
Formula: C15H13NO
SMILES: C=CC(=O)N(c1ccccc1)c1ccccc1
Mol. weight [g/mol]: 223.27
CAS: 25574-93-0

Physical Properties

Property code	Value	Unit	Source
gf	369.94	kJ/mol	Joback Method
hf	200.51	kJ/mol	Joback Method
hfus	26.03	kJ/mol	Joback Method
hvap	61.66	kJ/mol	Joback Method
log10ws	-3.64		Crippen Method
logp	3.537		Crippen Method
mcvol	181.940	ml/mol	McGowan Method
pc	2790.61	kPa	Joback Method
tb	658.95	K	Joback Method
tc	901.34	K	Joback Method
tf	392.29	K	Joback Method
vc	0.664	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	456.42	J/mol×K	658.95	Joback Method
cpg	472.29	J/mol×K	699.35	Joback Method
cpg	486.80	J/mol×K	739.75	Joback Method
cpg	500.06	J/mol×K	780.15	Joback Method
cpg	512.16	J/mol×K	820.55	Joback Method
cpg	523.21	J/mol×K	860.95	Joback Method
cpg	533.32	J/mol×K	901.34	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=C25574930&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