

1-Triazene, 1,3-diphenyl-

Other names:	1,3-DIPHENYLTRIAZENE 1,3-Diphenyltriazine Aniline, N-(phenylazo)- Cellofor DAAB DIAZOAMINO BENZENE Diazoaminobenzen Diazoaminobenzol N-(PHENYLAZO)ANILINE NSC 2077 Triazene, 1,3-diphenyl-
Inchi:	InChI=1S/C12H11N3/c1-3-7-11(8-4-1)13-15-14-12-9-5-2-6-10-12/h1-10H,(H,13,14)
InchiKey:	ALIFPGGMJDWMJH-UHFFFAOYSA-N
Formula:	C12H11N3
SMILES:	<chem>c1ccc(N=NNc2ccccc2)cc1</chem>
Mol. weight [g/mol]:	197.24
CAS:	136-35-6

Physical Properties

Property code	Value	Unit	Source
chs	-6631.20	kJ/mol	NIST Webbook
chs	-6705.30	kJ/mol	NIST Webbook
chs	-6625.80 ± 1.30	kJ/mol	NIST Webbook
chs	-6562.60	kJ/mol	NIST Webbook
hf	282.74	kJ/mol	Joback Method
hfs	331.60 ± 1.40	kJ/mol	NIST Webbook
hfs	411.00	kJ/mol	NIST Webbook
hvap	59.96	kJ/mol	Joback Method
log10ws	-3.53		Crippen Method
logp	3.797		Crippen Method
mcvol	158.060	ml/mol	McGowan Method
pc	2611.07	kPa	Joback Method
tb	726.69	K	Joback Method
tc	992.89	K	Joback Method

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.61396e+01
Coeff. B	-5.73085e+03
Coeff. C	-1.00078e+02
Temperature range (K), min.	461.60
Temperature range (K), max.	629.33

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
KDB:	https://www.thermo.com/research/kdb/hcprop/showprop.php?cmpid=1494
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C136356&Units=SI
The Yaws Handbook of Vapor Pressure:	https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure

Legend

chs:	Standard solid enthalpy of combustion
hf:	Enthalpy of formation at standard conditions
hfs:	Solid phase enthalpy of formation at standard conditions
h_{vap}:	Enthalpy of vaporization at standard conditions
log₁₀ws:	Log ₁₀ of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
m_{cvol}:	McGowan's characteristic volume
pc:	Critical Pressure
pvap:	Vapor pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature

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