

p-Tritylaniline

Other names:	p-Tritylaniline p-Aminotetraphenylmethane p-(Triphenylmethyl)aniline 4-(Triphenylmethyl)aniline Benzenamine, 4-(triphenylmethyl)- p-Toluidine, «alpha»,«alpha»,«alpha»-triphenyl- Triphenyl(p-aminophenyl)methane 4-Aminotetraphenylmethane 4-(Triphenylmethyl)benzenamine NSC 2085
Inchi:	InChI=1S/C25H21N/c26-24-18-16-23(17-19-24)25(20-10-4-1-5-11-20,21-12-6-2-7-13-21,
InchiKey:	XYHDHXBLSLSXSR-UHFFFAOYSA-N
Formula:	C25H21N
SMILES:	Nc1ccc(C(c2ccccc2)(c2ccccc2)c2ccccc2)cc1
Mol. weight [g/mol]:	335.45

Physical Properties

Property code	Value	Unit	Source
af	0.6578		Cheméo Relay (1.0)
gf	668.92	kJ/mol	Joback Method
hf	425.42	kJ/mol	Cheméo Relay (1.0)
hfus	34.06	kJ/mol	Joback Method
ie	7.49	eV	Cheméo Relay (1.0)
log10ws	-6.64		Cheméo Relay (1.0)
logp	5.652		Crippen Method
mcvol	278.050	ml/mol	McGowan Method
pc	2005.50	kPa	Joback Method
tb	720.24	K	Cheméo Relay (1.0)
tc	1076.04	K	Cheméo Relay (1.0)
tf	527.25	K	Cheméo Relay (1.0)
vc	0.956	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	853.89	J/mol×K	952.40	Joback Method
cpg	869.63	J/mol×K	1000.74	Joback Method
cpg	884.12	J/mol×K	1049.09	Joback Method
cpg	897.64	J/mol×K	1097.43	Joback Method
cpg	910.52	J/mol×K	1145.78	Joback Method
cpg	923.04	J/mol×K	1194.12	Joback Method
cpg	935.52	J/mol×K	1242.47	Joback Method

Sources

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=C22948067&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

Legend

af:	Acentric Factor
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
ie:	Ionization energy
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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