

Benzene, 1,1'-[3-(2-phenylethylidene)-1,5-pentanediy]bis-

Other names:

1,5-Diphenyl-3-(2-phenylethyl)-2-pentene

3-Phenylethyl-1,5-diphenyl-2-pentene

Inchi: InChI=1S/C25H26/c1-4-10-22(11-5-1)16-19-25(20-17-23-12-6-2-7-13-23)21-18-24-14-8-

InchiKey: LEPFYNPJKPSWHQ-UHFFFAOYSA-N

Formula: C25H26

SMILES: C(Cc1ccccc1)=C(CCc1ccccc1)CCc1ccccc1

Mol. weight [g/mol]: 326.47

CAS: 55334-57-1

Physical Properties

Property code	Value	Unit	Source
gf	568.52	kJ/mol	Joback Method
hf	257.69	kJ/mol	Joback Method
hfus	41.52	kJ/mol	Joback Method
hvap	78.11	kJ/mol	Joback Method
log10ws	-7.45		Crippen Method
logp	6.421		Crippen Method
mvol	287.530	ml/mol	McGowan Method
pc	1516.39	kPa	Joback Method
tb	855.48	K	Joback Method
tc	1099.87	K	Joback Method
tf	241.50 ± 0.60	K	NIST Webbook
vc	1.093	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	943.44	J/mol×K	1059.14	Joback Method
cpg	862.66	J/mol×K	855.48	Joback Method
cpg	881.19	J/mol×K	896.21	Joback Method
cpg	898.37	J/mol×K	936.94	Joback Method
cpg	914.36	J/mol×K	977.68	Joback Method
cpg	929.32	J/mol×K	1018.41	Joback Method
cpg	956.87	J/mol×K	1099.87	Joback Method

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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C55334571&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
hvapt:	Enthalpy of vaporization at a given temperature
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mccvol:	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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