

Anthracene, 9,10-bis(phenylmethyl)-

Other names:	9,10-Dibenzylanthracene
Inchi:	InChI=1S/C28H22/c1-3-11-21(12-4-1)19-27-23-15-7-9-17-25(23)28(20-22-13-5-2-6-14-2
InchiKey:	FMVRRCDBALUUBI-UHFFFAOYSA-N
Formula:	C28H22
SMILES:	c1ccc(Cc2c3ccccc3c(Cc3ccccc3)c3ccccc23)cc1
Mol. weight [g/mol]:	358.47
CAS:	3613-42-1

Physical Properties

Property code	Value	Unit	Source
gf	706.52	kJ/mol	Joback Method
hf	436.07	kJ/mol	Joback Method
hfus	43.27	kJ/mol	Joback Method
hvap	90.02	kJ/mol	Joback Method
log10ws	-9.28		Crippen Method
logp	7.175		Crippen Method
mcvol	295.180	ml/mol	McGowan Method
pc	1641.76	kPa	Joback Method
tb	972.98	K	Joback Method
tc	1241.95	K	Joback Method
tf	587.54	K	Joback Method
vc	1.123	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	907.49	J/molxK	972.98	Joback Method
cpg	924.11	J/molxK	1017.81	Joback Method
cpg	940.00	J/molxK	1062.64	Joback Method
cpg	955.43	J/molxK	1107.47	Joback Method
cpg	970.65	J/molxK	1152.30	Joback Method
cpg	985.93	J/molxK	1197.12	Joback Method
cpg	1001.53	J/molxK	1241.95	Joback Method
dvisc	0.0007877	Paxs	587.54	Joback Method

dvisc	0.0005357	Paxs	651.78	Joback Method
dvisc	0.0003904	Paxs	716.02	Joback Method
dvisc	0.0002997	Paxs	780.26	Joback Method
dvisc	0.0002396	Paxs	844.50	Joback Method
dvisc	0.0001976	Paxs	908.74	Joback Method
dvisc	0.0001673	Paxs	972.98	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C3613421&Units=SI
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

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
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

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