

Benz(a)anthracene, 12-ethyl-7-methyl-

Other names:	12-Ethyl-7-methylbenz(a)anthracene
Inchi:	InChI=1S/C21H18/c1-3-16-20-11-7-6-9-17(20)14(2)18-13-12-15-8-4-5-10-19(15)21(16)1
InchiKey:	FTMBVQWARWOALX-UHFFFAOYSA-N
Formula:	C21H18
SMILES:	CCc1c2ccccc2c(C)c2ccc3ccccc3c12
Mol. weight [g/mol]:	270.37
CAS:	16354-55-5

Physical Properties

Property code	Value	Unit	Source
gf	519.78	kJ/mol	Joback Method
hf	287.09	kJ/mol	Joback Method
hfus	33.69	kJ/mol	Joback Method
hvap	72.18	kJ/mol	Joback Method
log10ws	-8.16		Crippen Method
logp	6.017		Crippen Method
mcvol	224.610	ml/mol	McGowan Method
pc	2014.51	kPa	Joback Method
tb	783.42	K	Joback Method
tc	1031.24	K	Joback Method
tf	501.03	K	Joback Method
vc	0.870	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	625.02	J/molxK	783.42	Joback Method
cpg	696.57	J/molxK	989.94	Joback Method
cpg	683.49	J/molxK	948.64	Joback Method
cpg	669.98	J/molxK	907.33	Joback Method
cpg	655.84	J/molxK	866.03	Joback Method
cpg	640.91	J/molxK	824.72	Joback Method
cpg	709.36	J/molxK	1031.24	Joback Method
dvisc	0.0006104	Paxs	783.42	Joback Method

dvisc	0.0006744	Paxs	736.36	Joback Method
dvisc	0.0007555	Paxs	689.29	Joback Method
dvisc	0.0008604	Paxs	642.23	Joback Method
dvisc	0.0010003	Paxs	595.16	Joback Method
dvisc	0.0011934	Paxs	548.10	Joback Method
dvisc	0.0014719	Paxs	501.03	Joback Method

Sources

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=C16354555&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cp_g:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
g_f:	Standard Gibbs free energy of formation
h_f:	Enthalpy of formation at standard conditions
h_{fus}:	Enthalpy of fusion at standard conditions
h_{vap}:	Enthalpy of vaporization at standard conditions
log₁₀ws:	Log ₁₀ of Water solubility in mol/l
log_p:	Octanol/Water partition coefficient
mc_{vol}:	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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