

10-Methylanthracene-9-carboxaldehyde

Other names:	9-Anthracenecarboxaldehyde, 10-methyl-10-methylanthracene-9-carbaldehyde
Inchi:	InChI=1S/C16H12O/c1-11-12-6-2-4-8-14(12)16(10-17)15-9-5-3-7-13(11)15/h2-10H,1H3
InchiKey:	KVWSVUPNZVIFBN-UHFFFAOYSA-N
Formula:	C16H12O
SMILES:	<chem>Cc1c2ccccc2c(C=O)c2ccccc12</chem>
Mol. weight [g/mol]:	220.27
CAS:	7072-00-6

Physical Properties

Property code	Value	Unit	Source
gf	281.14	kJ/mol	Joback Method
hf	125.11	kJ/mol	Joback Method
hfus	26.40	kJ/mol	Joback Method
hvap	65.47	kJ/mol	Joback Method
log10ws	-5.80		Crippen Method
logp	4.114		Crippen Method
mvol	175.190	ml/mol	McGowan Method
pc	2758.46	kPa	Joback Method
rinpol	383.10		NIST Webbook
tb	693.72	K	Joback Method
tc	938.84	K	Joback Method
tf	441.46	K	Joback Method
vc	0.684	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	444.54	J/molxK	693.72	Joback Method
cpg	503.09	J/molxK	897.99	Joback Method
cpg	492.93	J/molxK	857.14	Joback Method
cpg	482.12	J/molxK	816.28	Joback Method
cpg	470.53	J/molxK	775.43	Joback Method
cpg	458.04	J/molxK	734.57	Joback Method

cpg	512.70	J/mol×K	938.84	Joback Method
dvisc	0.0005434	Paxs	693.72	Joback Method
dvisc	0.0006129	Paxs	651.68	Joback Method
dvisc	0.0007029	Paxs	609.63	Joback Method
dvisc	0.0008226	Paxs	567.59	Joback Method
dvisc	0.0009872	Paxs	525.55	Joback Method
dvisc	0.0012229	Paxs	483.50	Joback Method
dvisc	0.0015780	Paxs	441.46	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C7072006&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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