

Cyclodecene, 3-bromo-

Other names:	3-bromocyclodecene
Inchi:	InChI=1S/C10H17Br/c11-10-8-6-4-2-1-3-5-7-9-10/h6,8,10H,1-5,7,9H2/b8-6-
InchiKey:	FDNGUEYNQDEJBD-VURMDHGXSA-N
Formula:	C10H17Br
SMILES:	BrC1C=CCCCCCC1
Mol. weight [g/mol]:	217.15
CAS:	56325-56-5

Physical Properties

Property code	Value	Unit	Source
gf	53.65	kJ/mol	Joback Method
hf	-135.94	kJ/mol	Joback Method
hfus	11.60	kJ/mol	Joback Method
hvap	45.70	kJ/mol	Joback Method
log10ws	-4.30		Crippen Method
logp	4.050		Crippen Method
mcvol	154.100	ml/mol	McGowan Method
pc	3199.16	kPa	Joback Method
tb	530.15	K	Joback Method
tc	780.25	K	Joback Method
tf	256.32	K	Joback Method
vc	0.544	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	336.35	J/mol×K	530.15	Joback Method
cpg	358.44	J/mol×K	571.83	Joback Method
cpg	379.10	J/mol×K	613.52	Joback Method
cpg	398.34	J/mol×K	655.20	Joback Method
cpg	416.18	J/mol×K	696.88	Joback Method
cpg	432.63	J/mol×K	738.57	Joback Method
cpg	447.71	J/mol×K	780.25	Joback Method
dvisc	0.0155806	Paxs	256.32	Joback Method

dvisc	0.0037425	Paxs	301.96	Joback Method
dvisc	0.0013074	Paxs	347.60	Joback Method
dvisc	0.0005830	Paxs	393.24	Joback Method
dvisc	0.0003075	Paxs	438.87	Joback Method
dvisc	0.0001830	Paxs	484.51	Joback Method
dvisc	0.0001191	Paxs	530.15	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=C56325565&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
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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