

CsC₈ [1], GIC (graphite intercalation compound)

Structural features: Directly superposed graphite (hexagon-mesh) C layers; Cs between hexagons in every interlayer (stage 1; three different stacking positions). See Fig. IV.44.

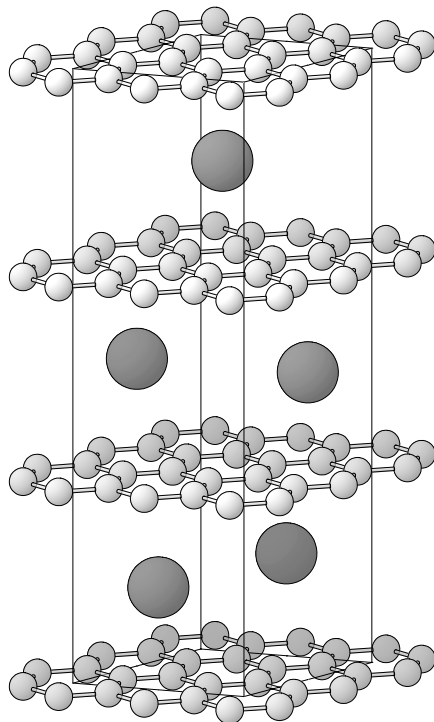


Fig. IV.44. CsC₈

Arrangement of Cs (large) and C (small) atoms.

Guerard D. et al. (1978) [1]

C₈Cs

$a = 0.4945$, $c = 1.776$ nm, $c/a = 3.592$, $V = 0.3761$ nm³, $Z = 3$

site	Wyck.	sym.	x	y	z	occ.	atomic environment
C1	12k	1	0.33333	0.16667	0.0		coplanar triangle C ₃
C2	6i	..2	0.16667	0.33333	0		coplanar triangle C ₃
C3	6i	..2	0.33333	0.66667	0		coplanar triangle C ₃
Cs4	3d	222	$\frac{1}{2}$	0	$\frac{1}{2}$		hexagonal prism C ₁₂

Experimental: powder, diffractometer, X-rays

Remarks: In [1] the Wyckoff position of the Cs site is misprinted as $3b$ instead of $3d$ (coordinates not specified; checked on drawings in figs. 1, 5, 7 and 8).

References: [1] Guerard D., Lagrange P., El Makrini M., Herold A. (1978), Carbon 16, 285-290.